


**City of Hillsboro**  
**2013 Pavement Management Program**  
**Contract #20552222-6102**

**Schedule "A": Slurry Seals**  
**Schedule "B": Micro-Surfacing**  
**Schedule "C": Overlays & AC Replacements**



**Engineering Division**  
**150 E Main Street, Fourth Floor**  
**Hillsboro, OR 97123**  
**Phone: 503-681-6416**

<b>April 29, 2013</b>		<b>CITY OF HILLSBORO, PUBLIC WORKS – ENGINEERING DIVISION</b>			
		<b>INVITATION TO BID FOR PUBLIC IMPROVEMENTS</b> <b>BID SUBMITTED BY: _____</b>			
<b>BID NO.:</b>	<b>20552222-6102</b>	<b>BID CLOSING/OPENING DATE AND TIME:</b>		<b>May 23, 2013</b>	<b>2:00 PM</b>
<b>DESCRIPTION:</b>		<b>2013 Pavement Management Program: Slurry Seals, Micro-surfacing, and Overlays &amp; AC Replacements</b>			
<b>PROJECT MANAGER:</b>		<b>Teresa Gibson</b>	<b>PHONE:</b>	<b>(503) 681-6234</b>	<b>FAX: (503) 681-6245</b>
		<b>E-MAIL:</b>	<b>teresa.gibson@hillsboro-oregon.gov</b>		
<b>PREBID CONFERENCE:</b>		<b>NO</b>			

***THIS PROCUREMENT IS FORMAL. FAXED BIDS WILL NOT BE ACCEPTED.***

***SEALED BIDS will be received until the BID CLOSING DATE and TIME noted above by the City of Hillsboro at:***

**CITY OF HILLSBORO  
 PUBLIC WORKS DEPARTMENT-ENGINEERING DIVISION  
 150 EAST MAIN STREET, FLOOR #4  
 HILLSBORO, OR 97123**

***POINT OF CONTACT:*** All questions concerning the bidding, material or technical requirements should be directed to the Project Manager listed above. For Copies of the Bid Documents please contact the Public Works Department, Engineering Division at 503-681-6146.

***BIDDER'S NOTE:*** The following is a proposed estimated price range

<b>Schedule "A": Slurry Seals</b>	<b>\$200,000 to \$300,000</b>
<b>Schedule "B": Micro-Surfacing</b>	<b>\$450,000 to \$540,000</b>
<b>Schedule "C": Overlays &amp; AC Replacements</b>	<b>\$2,100,000 to \$2,300,000</b>

***FOR MORE INFORMATION please refer to Section I "Instructions to Bidders".***

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\*\*\* THE ENTIRE BID BOOK IS TO BE RETURNED \*\*\*

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<b>ATTACHMENTS: The following attachments are hereby incorporated by reference:</b>			
• Special Specifications			
• Drawings			
• City of Hillsboro Standard Terms & Conditions for Public Improvement Contracts (Rev. June, 2011)			
<b>PREVAILING WAGE RATES: incorporated by reference and/or attached, P W R. for Public Works Contracts in Or. (BOLI, Rev. JANUARY 1, 2013 available at: <a href="http://www.oregon.gov/BOLI/WHDPWR/pwr_book.shtml">http://www.oregon.gov/BOLI/WHDPWR/pwr_book.shtml</a>)</b>			N/A
<b>NOTE 1: Bidder is responsible for completing and returning any page(s) in any attachment(s) which require a response. (THE ENTIRE BID BOOK IS TO BE RETURNED)</b>			

## ADVERTISEMENT

### CITY OF HILLSBORO INVITATION TO BID

#### 2013 PAVEMENT MANAGEMENT PROGRAM SLURRY SEALS, MICRO-SURFACING, AND OVERLAYS & AC REPLACEMENTS Contract# 20552222-6102

Sealed bids will be received only at the office of the City of Hillsboro Public Works Engineering Division, 150 East Main Street, Fourth Floor, Hillsboro, OR 97123, by 2:00 p.m. on Thursday, **May 23, 2013** (Bid Closing). The bids will be opened (Bid Opening) immediately after the stated Bid Closing time. Within two (2) hours of the bid closing, before 4:00 p.m., Thursday, **May 23, 2013**, all bidders must have submitted their First Tier Subcontractor Disclosure form.

The general nature and approximate quantities of work shall include furnishing all equipment, materials and labor required to install the following:

***The City is contracting the following annual maintenance work in order to maintain the roadways within the City:***

***Schedule "A" – Slurry Seals: Furnish all labor, equipment, and materials required to complete the preparation and placement of approximately 132,798 square yards of asphalt emulsion slurry seal, including striping and associated work.***

***Schedule "B" – Micro-Surfacing: Furnish all equipment, materials, and labor required to complete preparation and placement of approximately 98,261 square yards of asphalt emulsion Micro-Surfacing, including striping and associated work.***

***Schedule "C" – AC Replacements & Overlays: Furnish all equipment, materials, and labor required to complete the preparation and placement of approximately 14,337 tons of asphalt concrete, including excavation, pavement repair, grinding, handicap ramp replacement, striping, and associated work.***

Contract documents may be obtained from the office of the City Public Works Engineering Division, 150 E Main St, Fourth Floor, Hillsboro, Oregon 97123, for \$20 (non-refundable) plus postage for mailing. Please call (503)-681-6146 for additional information. Documents will also be available on the City's website at: [www.ci.hillsboro.or.us](http://www.ci.hillsboro.or.us).

This contract will be for a Public Work which makes it subject to ORS 279C.800 to 279C.870 (prevailing wage laws, Oregon Bureau of Labor & Industry)

Each bid must contain a statement as to whether the bidder is a resident bidder as defined in ORS 279A.120.

Each bid must also contain the Contractor's Oregon Construction Contractors Board (CCB) registration number.

The bidding documents may be reviewed at the above address or at many of the area plan centers.

**All bidders must be prequalified. Bidders must demonstrate the ability to perform the type of work that is required for this project through the prequalification application.** Prequalification applications must be submitted twenty four (24) hours in advance of the bid submittal time and date noted above. Prequalification applications may be obtained at the address given above.

The City of Hillsboro reserves the right to reject any bid not in compliance with all prescribed public contracting procedures and requirements and may reject for good cause all bids upon a finding of the City of Hillsboro that it is in the public interest to do so and at its sole option may waive any minor informalities in any bid..[ORS 279C365(1)]

Dated this 25th day of April, 2013

CITY OF HILLSBORO



City Recorder

**Please Publish:**

**Argus: May 1 and May 3, 2013**  
**Daily Journal: April 29 and May 1, 2013**  
**Hillsboro Chamber of Commerce**

## SECTION I. INSTRUCTIONS TO BIDDERS:

**All bids are subject to the provisions and requirements of the City of Hillsboro Public Contracting Ordinance, Administrative Rules, City of Hillsboro *Standard Conditions for Public Improvement Contracts*, the Oregon Revised Statutes and the Attorney General's Model Public Contract Rules .**

1. **BID DOCUMENTS:** (A) Bidders shall be responsible for obtaining all bid documents, including all attachments and/or addenda for the Invitation to Bid.

(B) Failure of the bidder to obtain all of the documents, including attachments and/or addenda could result in bid rejection due to failure of the Bidder to have all of the bid information or failing to return any required documents with their bid.

(C) In order to be added to the Planholders List, Bidders must register with the City Department issuing this ITB.

(D) Failure of a Bidder to register could result in bid rejection due to failure of the Bidder to have all of the bid information or failing to return any required documents with their bid.

(E) Bidders may also request copies of bid documents by e-mail, telephone or fax from the person or firm listed on page one of this Invitation to Bid.

2. **APPLICABLE STANDARD CONDITIONS:** The Standard Conditions which apply to the work on this project are found in the latest edition of the City of Hillsboro *Standard Terms & Conditions for Public Improvement Contracts*. The Bidder shall obtain and become acquainted with the applicable provisions of these Standard Conditions. This document is available from the Department issuing the bid.

3. **PROTEST OF SPECIFICATIONS OR CONTRACT TERMS:** A bidder who believes bid specifications are unnecessarily restrictive or limit competition may submit a protest, in writing, to the City. To be considered, protests shall be received at least five (5) days before the bid closing date.

The right to protest bid specifications and/or contract terms is provided in OAR 137-049-0260, as a provision for "checks and balances" on the ITB. The City shall promptly respond to each written protest, and where appropriate, issue all revisions, substitutions, or clarifications via addendum(s).

Envelopes containing bid protests shall be marked as follows:

**BID SPECIFICATION PROTEST  
BID NUMBER, CLOSING DATE**

Protest of technical or contractual requirements shall include the reason for protest, supported by documented factual information, and any proposed changes to the requirement.

4. **BID SUBMISSION:** Sealed bids, containing a minimum of one (1) original signed bid response including any addenda which require signature, shall be received and date and time-stamped by the City prior to bid closing. No bid received after bid closing date and time shall be considered. To ensure that your bid receives priority treatment within our mailing system, your bid should be labeled with the following information:

**BID #20552222-6102, BID DUE DATE & TIME:  
05/23/2013 2:00PM**

**Teresa Gibson  
CITY OF HILLSBORO  
PUBLIC WORKS-ENGINEERING DIVISION  
150 EAST MAIN STREET, FLOOR #4  
HILLSBORO, OR 97123**

The City is not responsible for the proper identification and handling of any bid not submitted in a timely manner.

5. **SIGNATURE ON BID:** Bids shall be signed in ink by an authorized representative of the bidder. Signature on a bid certifies that the bid is made without connection with any person, firm or corporation making a bid for the same goods and/or services and is in all respects fair and made without collusion or fraud. Signature on a bid also certifies that the bidder has read, fully understands and agrees with all bid specifications, terms and conditions. No consideration will be given to any claim resulting from bidding without fully comprehending all requirements of the Invitation to Bid.

Bidders shall only enter information within the bid document where it is requested or required. Bidders shall not make any alterations to the Original Solicitation Document. Any bid that has been altered may be rejected.

6. **BID WITHDRAWALS:** No bidder may withdraw a bid after the deadline set for bid closing unless award is delayed for a period exceeding thirty (30) days.

7. **BID OPENING:** Bids received in response to this Invitation to Bid shall be publicly opened at the scheduled bid opening, where the date; time and place are noted on page one (1) of this Invitation to Bid. Bidders who attend the bid opening shall be informed only of the names of bidders submitting bids and the total bid price. No other information shall be available at that time. Award decisions will NOT be made at the bid opening.

8. **INVESTIGATION OF REFERENCES:** the City reserves the right to investigate the references and the past performance of any bidder with respect to its successful performance of similar services, compliance



with specifications and contractual obligations, and its lawful payment of suppliers, subcontractors, and workers. The City may postpone the award or execution of the contract after the announcement of the apparent successful bidder in order to complete its investigation. The City reserves the right to reject any bid response or to reject all bid responses at any time prior to the City's execution of contract, upon good cause and upon the City finding that it is in the public interest.

9. INTENT TO AWARD NOTICE: Pursuant to OAR 137-049-0450(3), the City reserves the right to announce the Intent to Award prior to the formal bid award by a Bid Tabulation Sheet by faxing or mailing the Bid Tabulation Sheet to all bidders. This shall serve as a notice to all bidders of the City's intent to make the award to the lowest responsible and responsive bidder(s). Bidders shall have five (5) days within which they can view the bid file(s) by appointment or request any clarifications, etc. concerning the award(s). After the expiration of this five (5) day period, the City shall proceed with the formal award of the contract(s).

10. PROTEST OF AWARD: Bidders shall have five (5) days, after the City announces their intent to award, within which to file a written protest. OAR 137-049-0450 provides that the protest must specify the grounds upon which the protest is based. The City will not accept protests submitted more than five (5) days after the intent

to award notice. (See also the City of Hillsboro Standard Terms and Conditions, Part III #15)

11. PRIOR ACCEPTANCE OF DEFECTIVE PROPOSALS: Due to limited resources, the City generally will not completely review or analyze any bid response which on its face fails to comply with the requirements of the bid documents or which clearly is not the best bid, nor will the City generally investigate the references or qualifications of those who submit such bid responses. Therefore, neither the release of a bidder's bid bond, the return of a bid response, nor acknowledgment that the selection is complete shall operate as a representation by the City that a response was complete, sufficient, or lawful in any respect.

12. NOTICE OF AWARD: After expiration of the five (5) day period and resolution of all protests, the City will proceed with final award. The successful bidder(s) will be given a notice of award following authorization by the Hillsboro City Council or other governing body.

13. COMMENCEMENT OF WORK: Contractor shall commence no work under this contract until all certificates of insurance, as required in Section III, have been provided and a Notice to Proceed has been issued by the City.

## SECTION II. SPECIAL TERMS AND CONDITIONS

**Any additional terms and conditions contained within the City of Hillsboro *Standard Conditions for Public Improvement Contracts* are incorporated into and made a part of this section by this reference. It is the responsibility of the bidder to be familiar with all terms and conditions contained within both documents.**

1. **DEFINITIONS:** (See also COH Standard Terms and Conditions)

"Contractor" means the Person, including a Consultant as defined in OAR 137-048-0110(1), with whom the City enters into a Contract.

"The City" means the City of Hillsboro.

"The City Purchasing Office" means the Purchasing Division of the City of Hillsboro.

"Days": if not preceded by any other designation means calendar days, including weekdays, weekends and holidays. "Business Days" means Monday through Friday excluding City of Hillsboro holidays. "Working Days" are designated as the days that work is done or can be done on the project.

2. **HEADINGS:** The section headings in this Contract are included for convenience only; they do not give full notice of any portion of the terms of this Contract and are not relevant to the interpretation of any provision of this Contract.

3. **BIDDER CERTIFICATIONS:** (A) Bidder certifies that this bid has been arrived at independently and has been submitted without any collusion designed to limit independent bidding or competition.

(B) Bidder certifies compliance with State of Oregon statutory requirements governing registration of corporations and/or assumed business names.

4. **DISCLOSURE OF CONFLICT OF INTEREST:** All bidders shall disclose, on the Invitation to Bid, any relationship to the manager or person in charge of evaluating the contract performance. Failure to disclose such information may be grounds for termination of the contract.

5. **PREVAILING WAGE RATES (PWR)-BOLI REQUIREMENTS:** The Contractor and all subcontractors shall comply with the provisions of ORS 279C.800 through 279C.870, relative to Prevailing Wage Rates established by the Bureau of Labor and Industries (BOLI), as outlined in Sections C.1 and C.2 of the General Conditions when the contract price exceeds \$50,000 or when \$2,000 or more of Federal funds are used.

This ITB and the resulting Contract are subject to the BOLI requirements and the "PREVAILING WAGE RATES for Public Works Contracts in Oregon." The BOLI wage rates referenced for this ITB are listed on page one of this ITB. The Work will take place in Washington County, Region 2. The BOLI PWRs are to be found at: [http://www.oregon.gov/BOLI/WHD/PWR/pwr\\_book.shtml](http://www.oregon.gov/BOLI/WHD/PWR/pwr_book.shtml)

6. **BID SECURITY:** a 10% Bid Bond is required for this project. Contractor shall have ten (10) days to provide the required certificates of insurance, a 100% performance bond, and a 100% payment bond from the date of the "Notice of Intent to Award." If the contractor fails to provide the required certificates of insurance and performance bond and payment bond, the bid bond or other security required to be submitted with this bid shall be forfeited to the City of Hillsboro. (See City of Hillsboro "Standard Terms & Conditions" for form and additional information.)

7.1 **PERFORMANCE BOND AND PAYMENT BOND:** A 100% Performance Bond and 100% Payment bond to be submitted on the City of Hillsboro Performance Bond Payment Bond forms are required for this project.[ORS 279C.380] (See City of Hillsboro "Standard Terms & Conditions" for forms and additional information.)

7.2 **WARRANTY BOND:** A warranty bond submitted on the City of Hillsboro warranty bond form is required for this project [HMC 2.56.100] before the final payment on the contract is issued. The warranty security furnished by the Contractor for the work performed will be ten percent (10 %) of the original contract amount to guarantee replacement and repair of the public improvements as described in the contract for a period of one year following the issuance of the written Notice of Substantial Completion. (See City of Hillsboro "Standard Terms & Conditions" for form and additional information.)

8. **METHOD OF AWARD:** Award shall be made to the lowest responsive and responsible bidder for the total of the items selected for award. The City reserves the right to withdraw any item(s) from award consideration if it is in the best interest of the City.

9. **CONTRACT PROVISIONS BINDING:** The provisions of this contract shall be binding and shall supersede those of any other document concerning transactions conducted under this contract between CONTRACTOR and the CITY.

10. **AMENDMENTS:** The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the City Purchasing Office.

11. **RESPONSIBILITY FOR DAMAGES/HOLD HARMLESS:** Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay that may be caused by, or result from, the carrying out of the Work to be done under this Contract, or from any act, omission or neglect of the Contractor, his subcontractors, personnel, or agents, and the Contractor shall indemnify, defend and

hold harmless the Owner against any claims arising from said damage, injury, loss or expense.

12. HAZARD COMMUNICATION: Products which contain hazardous chemicals, as defined by Oregon Administrative Rules Chapter 437, must be labeled, tagged or marked with the following information:

(A) Identity of the hazardous chemical(s);

(B) Appropriate hazard warning; and name and address of the chemical manufacturer, importer or other responsible party.

Upon request, Contractor shall provide a Material Safety Data Sheet, as required by CHAPTER 437-002-360 (35), 29 CFR 1910.1200, for any item included in this contract which contains hazardous chemicals.

Bidders should address questions about the Administrative Rules referenced in this section to the Department of Consumer and Business Services, Oregon Occupational Health & Safety Administration Section, Labor and Industries Building, Salem, Oregon 97310, (800) 922-2689, FAX: (503) 947-7463.

13. CONTACT PERSON: Contractor shall designate one or more person(s) responsible for Contractor's work under this contract. Contractor shall provide to the City the names, addresses and telephone numbers of such person(s) and shall keep this information current at all times.

14. NONDISCRIMINATION: Contractor shall comply with all applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations.

15. AWARD TO FOREIGN CONTRACTOR: If the amount of this contract exceeds \$10,000 and if Contractor is not domiciled in or registered to do business in the State of Oregon, Contractor shall promptly provide to the Oregon Department of Revenue and the Secretary of State Corporation Division all information required by those agencies relative to this contract. The City shall withhold final payment under this contract until Contractor has met this requirement.

16. SECURITY OF DOCUMENTS AND PROPERTY: All City property, materials and documents and all personal property of the City employees are to be left undisturbed and are not to be handled, read or otherwise used by Contractor or Contractor's employees. Contractor shall consider all documents confidential. Any disclosure of

confidential information or removal of City property by Contractor or Contractor's employees shall be cause for immediate contract cancellation. Any liability, including but not limited to, attorney fees, arising from any action or suit brought against the City because of Contractor's willful or negligent release of information, documents or property shall be borne by Contractor.

17. SILENCE OF SPECIFICATION: The apparent silence of this specification and supplemental specification as to any detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and that only materials and workmanship of first quality are to be used.

18. LIQUIDATED DAMAGES. Failure to complete the Project by the specified time will result in damages to the City. The parties to this contract agree that establishing the exact amount of damages the City will incur will be difficult. In order to compensate the City, the parties to this contract have estimated the amount the City would be damaged for every calendar day completion is delayed. Consequently, the Contractor agrees to pay the City the sum **as listed in Table 1** below per day, not as a penalty but as liquidated damages, for each day elapsed beyond the Substantial Completion date set forth in the bid document. The total liquidated damages shall be deducted from the final payment due the Contractor. The City may waive its right to claim part or all of the liquidated damages due under this provision, but such full or partial waiver shall not negate or abridge any other right of action the City may have to enforce the provisions of this Contract. Contractor will not contest such sums as being other than a reasonable measure of delay damages in the event those damages become payable under these provisions.

Contract	Liquidated Damages
Schedule "A": Slurry Seals	\$400
Schedule "B": Micro-Surfacing	\$700
Schedule "C": Overlays & AC Replacements	\$1,300
Table 1	

**SECTION III. INSURANCE REQUIREMENTS**  
**(Also See Part VI Section G COH Standard Terms and Conditions)**

The apparent low bidder shall provide all required proof of insurance and bonding (See *City of Hillsboro Standard Terms & Conditions*) to the Department issuing the Bid within ten (10) days from the date on the "Notice of Intent to Award." Failure to present the required documents within ten (10) days may be grounds for bid rejection.

**Insurance Coverages-**The following insurance coverages and dollar amounts are required pursuant to this Subsection:

<b>Insurance Coverages</b>	<b>Combined Single Limit Per Occurrence</b>	<b>Annual Aggregate Limit</b>
Commercial General Liability	\$1,000,000	\$2,000,000
Commercial Automobile Liability	\$1,000,000	\$2,000,000

Extended Coverage shall be for a Minimum of three (3) years after Final Completion (see G.4.1 COH Standard Terms & Conditions.)

**Additional Insured:** Add the following as Additional Insureds under the Contract:

- "The City of Hillsboro its elected and appointed officials, officers, agents, employees and volunteers"

**Each Bidder (offeror) must read and comply with the following Sections. Failure to do so may result in bid/proposal (offer) rejection.**

#### **SECTION IV. RESIDENCY INFORMATION**

ORS 279A.120(2) states "For the purposes of awarding a public contract, a contracting agency shall: (a) Give preference to goods or services that have been manufactured or produced in this state if price, fitness, availability and quality are otherwise equal; and (b) Add a percent increase to the bid of a nonresident bidder equal to the percent, if any, of the preference given to the bidder in the state in which the bidder resides."

"Resident bidder" means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid whether the bidder is a "resident bidder" [ORS 279A.120(1)(b)].

"Non-resident bidder" means a bidder who is not a "resident bidder" as defined above [ORS 279A.120(1)(b)].

Check one: Bidder is a ☐ RESIDENT bidder ☐ NON-RESIDENT bidder.

#### **SECTION V. CERTIFICATION OF COMPLIANCE WITH DISCRIMINATION LAWS**

By my signature in Section X of this ITB, I hereby attest or affirm under penalty of perjury that I am authorized to act on behalf of Contractor in this matter, and to the best of my knowledge the Contractor has not discriminated against minority, women or emerging small business enterprises certified under ORS 200.055, in obtaining any required subcontract or against a business enterprise that is owned or controlled by or that employs a disable veteran as defined in ORS 408.225.

#### **SECTION VI. CERTIFICATION OF COMPLIANCE WITH OREGON TAX LAWS**

By my signature in Section X of this ITB, I hereby attest or affirm under penalty of perjury that I am authorized to act on behalf of Contractor in this matter, that I have authority and knowledge regarding the payment of taxes, and that Contractor is, to the best of my knowledge, not in violation of any Oregon Tax Laws.

For purposes of this certificate, 'Oregon Tax Laws' means those programs listed in ORS 305.380(4) which is incorporated herein by this reference. Examples include the state inheritance tax, personal income tax, withholding tax, corporation income and excise taxes, amusement device tax, timber taxes, cigarette tax, other tobacco tax, 9-1-1 emergency communications tax, the homeowners and renters property tax relief program and local taxes administered by the Department of Revenue (Lane Transit District Self-Employment Tax, Lane Transit District Employer Payroll Tax, Tri-County Metropolitan Transit District of Oregon "Tri-Met" Employer Payroll Tax, and Tri-Met Self-Employment Tax).

#### **SECTION VII. VERIFICATION OF RESPONSIBILITY**

The City reserves the right, pursuant to ORS 279C.375 and OAR 137-049-0390, to investigate and evaluate, at any time prior to award and execution of the contract, the lowest bidder's (apparent successful offeror's) ability to perform the contract. Submission of a signed offer shall constitute approval for the City to obtain any information the City deems necessary to conduct the evaluation. The City shall notify the apparent successful offeror, in writing, of any other documentation required. Being a responsible bidder may include having the appropriate financial, material, equipment, facility and personnel resources and expertise, or ability to obtain the resources and expertise to perform the contract. Contractor shall have a satisfactory record of contract performance. The Contractor shall also have a satisfactory record of integrity. An unsatisfactory record of integrity may include previous violations of state environmental laws or a false certifications made to any Public Agency. The Contractor is to be qualified legally to contract with the City of Hillsboro. Failure to promptly provide any requested information may result in bid/proposal rejection.

The City may postpone the award of the contract after announcement of the apparent successful offeror in order to complete its investigation and evaluation. Failure of the apparent successful offeror to demonstrate responsibility, as required under ORS 279C.375 and OAR 137-049-0390, may render the offeror non-responsible and shall constitute grounds for offer rejection.

#### **SECTION VIII. DRUG TESTING POLICY CERTIFICATION**

##### **DRUG-TESTING POLICY CERTIFICATION:**

By my signature in Section X of this ITB, I hereby attest or affirm under penalty of perjury that I am authorized to act on behalf of Contractor in the matter, and to the best of my knowledge the Contractor has a drug-testing program in place which applies to all employees. Contractor shall maintain a drug-testing program at all times during the performance of the Contract awarded. Failure to maintain such a program shall constitute a material breach of contract.[ORS 279C.505]

## SECTION IX. BID PROPOSAL FORM

**BID SUBMITTED BY:** \_\_\_\_\_

<b>2013 PAVEMENT MANAGEMENT PROGRAM (#20552222-6102)</b> <b>SCHEDULE "A": SLURRY SEALS</b>					
The bidder proposes to furnish all equipment, materials, and labor required to complete preparation and placement of approximately <b>132,798</b> square yards of asphalt emulsion slurry seal, including striping and associated work					
ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.	Move-in, Bond, Insurance, Clean-up	L.S.	All		
2.	Traffic Control and Public Notification	L.S.	All		
3.	Street Preparation and Application of Type II Asphalt Emulsion Slurry Seal	Sq. Yd.	132,798		
4.	Install/Replace Pavement Markings per Manual of Uniform Traffic Control Devices				
	A. Thermoplastic Railroad Crossing	EA.	4		
	B. Thermoplastic Left Turn Arrow	EA.	3		
	C. Thermoplastic Right Turn Arrow	EA.	3		
	D. Thermoplastic Bicycle Symbol w/Arrow	EA.	5		
	E. Reflective two-way raised pavement markers				
	a. Yellow	EA.	3		
	b. Blue	EA.	76		
	c. White	EA.	16		
	c. Red/White	EA.	20		
	F. 4" Wide Yellow Stripe, Thermoplastic	L.F.	100		
	G. 4" Wide White Stripe, Thermoplastic	L.F.	702		
	H. 8" Wide White Stripe, Thermoplastic	L.F.	1,509		
	I. 12" Wide White Stripe, Thermoplastic	L.F.	2,530		
				<b>TOTAL</b>	

**METHOD OF AWARD:** Award shall be made to the lowest responsive and responsible bidder for the total of the items selected for award. Award shall be made to one bidder and one bidder only. The City reserves the right to withdraw any items(s) from award if it is in the best interest of the City to do so.

## SCHEDULE "B": MICRO-SURFACING

ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.	Move-in, Bond, Insurance, Clean-up	L.S.	All		
2.	Traffic Control and Public Notification	L.S.	All		
3.	Portable Changeable Message Sign	EA.	4		
4.	Street Preparation and Application of Type III Micro-Surfacing	Sq. Yd.	98,261		
5.	Install/Replace Pavement Markings per Manual of Uniform Traffic Control Devices				
	A. Thermoplastic Right/Thru Arrow	EA.	2		
	B. Thermoplastic Left Turn Arrow	EA.	69		
	C. Thermoplastic Right Turn Arrow	EA.	12		
	D. Thermoplastic Bicycle Symbol w/Arrow	EA.	49		
	E. Reflective two-way raised pavement markers				
	a. Yellow	EA.	994		
	b. Blue	EA.	47		
	b. White	EA.	189		
	F. 4" Wide Yellow Stripe, Thermoplastic	L.F.	33,120		
	G. 4" Wide White Stripe, Thermoplastic	L.F.	3,278		
	H. 8" Wide White Stripe, Thermoplastic	L.F.	28,420		
	I. 12" Wide White Stripe, Thermoplastic	L.F.	1,370		
				TOTAL	

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**BID SUBMITTED BY:** \_\_\_\_\_

<b>2013 PAVEMENT MANAGEMENT PROGRAM (#20552222-6102)</b> <b>SCHEDULE "C": OVERLAYS &amp; AC REPLACEMENTS</b>					
The bidder proposes to furnish all equipment, materials, and labor required to complete the preparation and placement of approximately <b>13,982 tons</b> of asphalt concrete including pavement repair, grinding, striping, and associated work.					
ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Move-in, Bond, Insurance, Clean Up, All Streets	L.S.	All		
2	Traffic Control (including temporary lane marking) and Public Notification, All Streets	L.S.	All		
3	Portable Changeable Message Signs (PCMS)	EA	4		
4	Street Preparation (including surface cleaning, removal of thermoplastic tape and reflective markers, and de-vegetation), all streets	L.S.	All		
5	Utility Adjustments				
	A. Manholes	EA.	75		
	B. Water Valves	EA.	58		
	C. 15" Cleanout	EA.	3		
6	Survey Monument Boxes				
	A. Adjust Survey Monument Box	EA	5		
	B. New Survey Monument Box	EA	13		
7	2" Depth Grind	SQ.YD.	10,374		
8	3" Depth Grind	SQ.YD.	12,373		
9	3.5" Depth Grind	SQ.YD.	22,559		
10	4" Depth Grind	SQ.YD.	15,499		
11	Asphalt Concrete Removal and Preparation	SQ.YD.	4,267		
12	Asphalt Concrete Replacement	Ton	962		
13	1" Skin Patch-Level 2, 1/2" Dense Graded Asphalt Concrete	Ton	50		
14	<b>2.5" Level 2</b> , 1/2" Dense Graded Asphalt Concrete	Ton	1,431		
15	<b>2" Level 3</b> , 1/2" Dense Graded Asphalt Concrete	Ton	9,832		
16	<b>3" Level 3</b> , 1/2" Dense Graded Asphalt Concrete	Ton	2,062		
17	Subgrade Stabilization	CY.YD.	8,918		



18	Install/Replace Pavement Markings per Manual of Uniform Traffic Control Devices				
	A. 4" Yellow, Cold Tape Inlay	LF	8,342		
	B. 12" White, Cold Tape Inlay	LF	1,192		
	C. 8" White, Cold Tape Inlay	LF	9,155		
	D. 4" White, Cold Tape Inlay	LF	1,060		
	E. "School" Legend, Cold Tape Inlay	EA.	1		
	F. Bicycle Symbol w/Arrow, Cold Tape Inlay	EA.	18		
	G. Left Turn Arrow, Cold Tape Inlay	EA.	14		
	H. Reflective two-way yellow raised pavement markers	EA.	273		
	I. Reflective two-way blue raised hydrant pavement markers	EA.	24		
	J. Reflective two-way white raised pavement markers	EA.	30		
19	Remove/Replace Concrete Panel	SQ.FT.	140		
20	Concrete Sidewalk	S.F.	2,649		
21	Remove/Replace Sidewalk Ramps w/Truncated Domes	EA.	54		
22	Remove/Replace Residential PCC Driveway	SF	924		
23	Remove/Replace Curb & Gutter	LF	42		
24	Mailbox - Centralized Box Unit, includes removal of existing boxes	EA	1		
25	Extra Field Work (as directed by City Engineer)	T & M			\$ 25,000.00
				<b>TOTAL</b>	

METHOD OF AWARD: Award shall be made to the lowest responsive and responsible bidder for the total of the items selected for award. Award shall be made to one bidder and one bidder only. The City reserves the right to withdraw any items(s) from award if it is in the best interest of the City to do so.

## SECTION X. SIGNATURE OF BIDDER'S DULY AUTHORIZED REPRESENTATIVE

**THIS OFFER MUST BE SIGNED IN INK BY AN AUTHORIZED REPRESENTATIVE OF THE OFFEROR. ANY ALTERATIONS OR ERASURES TO THE OFFER MUST BE INITIALED IN INK BY THE UNDERSIGNED AUTHORIZED REPRESENTATIVE.**

The undersigned acknowledges, attests and certifies individually and on behalf of the Offeror that:

- (1) He/she is a duly authorized representative of the Offeror, has been authorized by Offeror to make all representations, attestations, and certifications contained in the bid/proposal document and all addenda, if any issued, and to execute this bid/proposal document on behalf of Offeror;
- (2) Offeror, acting by its authorized representatives, has read and understands all bid/proposal instructions, specifications, and terms and conditions contained in this bid/proposal document (including all listed attachments and addenda, if any issued);
- (3) Offeror certifies that this bid/proposal had been arrived at independently and has been submitted without collusion designed to limit independent bidding or competition;
- (4) Offeror is bound by and will comply with all requirements, specifications, and terms and conditions contained in this bid/proposal document (including all listed attachments and addenda, if any issued);
- (5) Offeror will furnish the designated item(s) and/or service(s) in accordance with the bid/proposal specifications and requirements and will comply in all respects with the terms of the resulting contract upon award;
- (6) OFFEROR WILL PROVIDE/FURNISH FEDERAL EMPLOYEE IDENTIFICATION NUMBER OR SOCIAL SECURITY NUMBER WITH BID SUBMISSION.

I hereby acknowledge having received and duly considered the following addenda to the specification and the following revision or additions to the plans: Addenda No. \_\_\_\_\_ to No. \_\_\_\_\_ Inclusive.

**-----RETURN THE ENTIRE BID BOOK WITH ALL REQUIRED FORMS COMPLETED-----**

Bidder (COMPANY) Name \_\_\_\_\_ FEIN ID# or SSN (REQUIRED) \_\_\_\_\_

Bidder Address \_\_\_\_\_

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Title of Authorized Representative \_\_\_\_\_

Contact Person \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_

### CONSTRUCTION CONTRACTORS BOARD

(1) Offerors shall be licensed with the State of Oregon Construction Contractors Board (CCB) prior to bidding on Public Improvement Contract(s). **FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL RESULT IN BID REJECTION.**

(2) All Subcontractors participating in the project shall be similarly registered with the Construction Contractors Board at the time they propose to engage in subcontract work. The CCB registration requirements apply to all public works contracts unless superseded by federal law. Offerors SHALL provide their Construction Contractors Board (ORS 701.055) registration number below:

CONSTRUCTION CONTRACTORS BOARD REGISTRATION NO.: \_\_\_\_\_ EXPIRATION DATE OF CCB NO.: \_\_\_\_\_  
(Construction Contractors Board, 700 Summer Street NE, Suite 300, Salem, Oregon 97310, telephone (503) 378-4621)

### THIS SECTION TO BE COMPLETED BY THE CITY OF HILLSBORO

**The City of Hillsboro, hereby awards a contract to the above bidder for the item(s) and/or service(s) designated on the bid invitation as:**

Project Name: **2013 Pavement Management Program:**  
**Slurry Seals, Micro-Surfacing, and Overlays & AC Replacements**  
**#20552222-6102**

Alternates (if any): \_\_\_\_\_

Total Contract Price Awarded: \_\_\_\_\_ Contract # \_\_\_\_\_ Term/Expires: \_\_\_\_\_

For the City of Hillsboro \_\_\_\_\_ MAYOR/Chairperson Utilities Commission/Director/Project Manager \_\_\_\_\_ Date \_\_\_\_\_

Attest: \_\_\_\_\_ CITY RECORDER \_\_\_\_\_ Date \_\_\_\_\_

## **SECTION XI. FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM INSTRUCTIONS**

1. Pursuant to ORS 279C.370, bidders are required to disclose information about certain first-tier subcontractors when the Public Contracting Agency estimates the contract value for a Public Improvement to be greater than \$100,000 (see Disclosure Form). Specifically, when the contract amount of a first-tier subcontractor is greater than or equal to: (i) 5% of the project bid, but at least \$15,000, or (ii) \$350,000 regardless of the percentage, the bidder must disclose the following information about that subcontract within two (2) working hours after the bid closing:

- a) The subcontractor's name and,
- b) The category of work that the subcontractor would be performing.
- c) The dollar value of the work.

2. If the bidder will not be using any subcontractors that are subject to the above disclosure requirements, the bidder is required to indicate "NONE" on the accompanying form.

**3. THE CITY OF HILLSBORO MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE.**

4. A bidder shall submit the disclosure form required either in its bid submission or within two (2) working hours after Bid Closing/Opening in the manner specified by the ITB.

5. Compliance with the disclosure and submittal requirements of ORS 279C.370(2) and these Instructions is a matter of responsiveness. Bids which are submitted by Bid Closing, but for which the disclosure submittal has not been made by the specified deadline, are not responsive and shall not be considered for Contract award

6. The City of Hillsboro shall obtain, and make available for public inspection, the disclosure forms required by ORS 279C.320. The City of Hillsboro shall also provide copies of disclosure forms to the Bureau of Labor and Industries as required by ORS 279C.835. The City of Hillsboro is not required to determine the accuracy or completeness of the information submitted. Substitution of affected first-tier subcontractors shall be made only in accordance with ORS 279C.585.

**SECTION XI. FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM**  
(ORS 279C.370)

**Bids which are submitted by Bid Closing, but for which a required disclosure submittal has not been made by the specified Disclosure Deadline, are not responsive and shall not be considered for Contract award**

**CITY OF HILLSBORO INFORMATION:**

PROJECT NAME: **2013 PAVEMENT MANAGEMENT PROGRAM:**  
**SLURRY SEALS, MICRO-SURFACING, OVERLAYS & AC REPLACEMENTS**  
BID #: **20552222-6102** BID CLOSING/OPENING: Date: **MAY 23, 2013** Time: **2:00 PM**  
REQUIRED DISCLOSURE DEADLINE: TWO (2) WORKING HOURS AFTER ABOVE DATE & TIME  
Deliver Form to (Dept.): City of Hillsboro Public Works Department, Engineering Division  
Designated Recipient (Person): Teresa Gibson, P.E. Phone #: 503-681-6234  
Department's Address: 150 East Main St, 4<sup>th</sup> Floor  
Hillsboro, OR 97123

**INSTRUCTIONS:**

The contracting Department will insert "N/A" above if the contract value is anticipated to be less than \$100,000. Otherwise this form must be submitted either with the bid or within TWO (2) working hours after the advertised bid closing/opening date and time; but no later than the DISCLOSURE DEADLINE stated above.

Unless otherwise stated in the solicitation, this document shall not be submitted by facsimile. It is the responsibility of bidders to submit this disclosure form and any additional sheets, with the bid number and project name clearly marked, at the location indicated by the specified disclosure deadline. See "Instructions to Bidders".

List below the Name and Category of Work for each first-tier subcontractor that would be furnishing labor, or labor and material, for which disclosure is required. Enter the word "**NONE**" if there are no first-tier subcontractors subject to disclosure. ATTACH ADDITIONAL SHEETS IF NECESSARY.

**BIDDER DISCLOSURE:**

SUBCONTRACTOR NAME	CATEGORY OF WORK	DOLLAR VALUE
1. _____	_____	\$ _____
2. _____	_____	\$ _____
3. _____	_____	\$ _____
4. _____	_____	\$ _____
5. _____	_____	\$ _____
6. _____	_____	\$ _____

The above listed first-tier subcontractor(s) are providing labor, or labor and material, with a Dollar Value equal to or greater than:

a) 5% of the total Contract Price, but at least \$15,000. [If the Dollar Value is less than \$15,000 do not list the subcontractor above.]

Or

b) \$350,000 regardless of the percentage of the total Contract Price.

Form Submitted By (Bidder Name): \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

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**SPECIAL SPECIFICATIONS**  
**GENERAL: ALL SCHEDULES**  
2013 Pavement Management Program  
#20552222-6102

**1. Quantities and Schedule of Contract Prices**

Each bid schedule (Schedule "A", "B", and "C") shall be a separate contract for award. Contractors may bid one or all of the schedules.

The quantities set forth in this contract are approximate only, and the right is reserved by the City to make such increases or decreases in the quantities as may be necessary to satisfactorily complete the work and to maintain the contract within the Pavement Management Program Budget (subject to approval of the 2013/2014 Fiscal Year Budget). Such modification will not entitle the contractor to renegotiate the unit prices. Actual payment for work done under these contracts will be made at the unit prices set forth in the Contractor's proposal. It is neither implied nor expressly agreed that the actual amount of work to be done and paid for will correspond therewith. The City reserves the right to reject any or all bids or schedules.

**2. Time of Award**

The anticipated time of award for this contract is **June 4, 2013** at the City of Hillsboro Council meeting to be held at 7:00pm in the Civic Center Auditorium, located at 150 E Main Street, Hillsboro, OR 97123.

**3. Standard Specifications**

All work shall conform to the City of Hillsboro *Design and Construction Standards* (2012), the Oregon Department of Transportation *Oregon Standard Specifications for Highway Construction* (2008), and Clean Water Services *Design and Construction Standards for Sanitary Sewer and Surface Water Management* (June 2007). All traffic control and pavement markings shall be in accordance with the *Manual of Uniform Traffic Control Devices (MUTCD)*, 2009 Edition and the *Oregon Temporary Traffic Control Handbook (OTTCH)*, December 2011. The documents referenced above are hereby made part of these specifications.

**4. Document Notice to Bidders**

A Warranty Bond requirement has been added, which is found under Section II, Subsection 7.2 of the Invitation to Bid and Part IV, Section G.2 of the City of Hillsboro Standard Terms and Conditions for Public Improvement Contracts.

**5. Construction Notices to Bidders**

There will be construction projects on major roadways within the City Limits that may cause delays in traveling to complete the work on this contract. The Oregon Department of Transportation's TV Highway Paving Project will affect travel through Hillsboro as this project will be from Minter Bridge Road through downtown on Oak/Baseline to 331<sup>st</sup> Avenue in Cornelius. More information on the project can be found at <http://www.oregon.gov/ODOT/HWY/REGION1/pages/tvhwypaving/index.aspx>.

A citywide map of the maintenance work for this contract is posted on the website for reference in coordinating any adjacent work at <http://www.ci.hillsboro.or.us/PublicWorks/RoadwayRepair.aspx>.

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**SPECIAL SPECIFICATIONS**  
**SCHEDULE "A": SLURRY SEALS**  
2013 Pavement Management Program  
#20552222-6102

**1. Time of Construction**

Work contemplated in this contract may not commence until July 1, 2013. All work contemplated shall be completed on or before August 30, 2013. Striping may be completed up to two (2) weeks after August 30, 2013.

**2. Preconstruction Conference**

After the execution of the contract, but prior to the notice to proceed, a pre-construction conference between the contractor, all subcontractors and the City shall be held at the City of Hillsboro Civic Center (150 E Main Street, Fourth Floor, Hillsboro, OR 97123). The contractor shall be represented, at a minimum, by a principle of the firm and the superintendent of the project. ***The contractor shall provide the following for the Engineer's approval at the preconstruction conference:***

- a. Preliminary work schedule. At a minimum, the work schedule shall include the locations by day, when notification will be placed for each day (keeping in mind requirements in Section 5 – Traffic Control and Public Notification), striping removal, and striping replacement.
- b. Traffic control plans.
- c. Signed original laboratory report of tests and proposed mix design covering the specific materials to be used on the project.

**3. Scope**

This schedule consists of furnishing all labor, equipment, and materials necessary for the preparation and application of one or more layers of slurry seal consisting of latex modified emulsified asphalt, water, aggregate, and additives on a prepared asphalt pavement as shown or directed. The cured slurry seal shall have a homogeneous appearance, fill all cracks, and adhere firmly to the surface.

**4. Areas of Work**

The areas of work are shown in the attached maps and spreadsheets. Do not place slurry seal on any portion of a concrete roadway or bridge deck.

**5. Traffic Control and Public Notification**

The contractor shall provide adequate signing and Oregon certified flaggers to ensure the work zone is properly identified in compliance with the *Manual of Uniform Traffic Control Devices*, 2009 Edition (MUTCD) and the *Oregon Temporary Traffic Control Handbook*, December 2011 (OTTCH).

All flaggers shall have:

- a. The mental and physical ability to provide timely, clear, and positive guidance.
- b. A sense of responsibility for safety of public and work crew.
- c. A neat appearance.
- d. A courteous but firm manner.
- e. Completed an approved work zone traffic control course within the past three (3) years and be able to provide evidence of completion to the Project Inspector upon request. (Oregon certified flagger.)
- f. Two-way radios with extra batteries.
- g. Shall not use personal cell phones while working on the job site.
- h. Shall be able to communicate effectively with the general public, Contractor, and Project Inspector.

A detailed traffic control plan shall be supplied to the Engineer at the preconstruction meeting. The plan(s) shall include, but not be limited to all construction signing, flagger locations, types and locations of traffic control devices, construction phasing, method for maintaining traffic signal functions, detours, and accommodations for pedestrian, bicycle, and transit facilities. No work can commence until the traffic control plans have been approved.



**SPECIAL SPECIFICATIONS**  
**SCHEDULE "A": SLURRY SEALS**  
2013 Pavement Management Program  
#20552222-6102

The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor's operations. No work shall be done on or adjacent to any traveled way until all necessary signs and traffic control devices are in place.

SE 2<sup>nd</sup> Avenue (at SE Oak Street and SE Baseline Street), SE 11<sup>th</sup> Avenue (at SE TV Hwy), and SE 40<sup>th</sup> Avenue (at SE TV Hwy) abut Oregon Department of Transportation (ODOT) roadways. The contractor shall coordinate traffic control and obtain any necessary permits through ODOT by contacting Jim Nelson at 971-673-2942 or [james.a.nelson@odot.state.or.us](mailto:james.a.nelson@odot.state.or.us). NE Milne Road (at NW Glencoe Road), NE Jefferson Street (at N 1<sup>st</sup> Avenue), SE Jean Lane (at SE River Road), SE Currin Drive (at SE River Road), and SE Sycamore Street (at SW Brookwood Avenue) abut Washington County roadways. The contractor shall coordinate traffic control and obtain any necessary permits through Washington County by contacting Matthew Aase at 503-846-7628 or [matthew\\_aase@co.washington.or.us](mailto:matthew_aase@co.washington.or.us). SE 5<sup>th</sup> Avenue (south of SE Cedar Street) and SE 11<sup>th</sup> Avenue (south of SE TV Hwy) abuts the Portland & Western Railroad tracks. The contractor shall coordinate traffic control and obtain any necessary permits and scheduling through Portland & Western Railroad by contacting Dennis Hannahs at 1-503-508-7440 or [dhannahs@gwrr.com](mailto:dhannahs@gwrr.com).

Any permits required to complete the work are the responsibility of the contractor. A copy of the permits shall be submitted to the City's Engineer prior to beginning work. If a permit is not required, the contractor will submit written documentation from ODOT, Washington County, or Portland & Western Railroad stating the permit is not required. Permits shall be considered incidental to the traffic control bid item.

Thirty-six (36) hours prior to starting work on any given group of streets, the contractor is responsible for notifying the Washington County Consolidated Communications Agency (503-629-0111) of any traffic impairment. Notification shall include the exact location of work and the times when work will be performed, stating time of day and the date of street closure. A means of emergency access will be maintained at all times in all work zones.

Work shall be performed in a manner that will minimize inconvenience to businesses and the public. The contractor shall at no time close any intersection. Cul-de-sacs and dead ends shall have access restored within 4 hours. ***For all non-residential access, at least one lane of the access shall remain open for bi-directional traffic flow unless alternate access is available. The contractor shall provide the necessary flaggers, barricades and appropriate signage to maintain this access.*** SW Armco Avenue, SW Maple Street, and SE 2<sup>nd</sup> Avenue are locations that may require extra traffic control due to business access. **SE 11<sup>th</sup> Avenue is the only entrance/exit to the Arbor Roses neighborhood, therefore the contractor will be required to maintain bi-directional access at all times with flaggers and/or pilot cars.**

The contractor shall provide such barricades as required to close the street to protect the uncured slurry from vehicular traffic. When specified, the contractor shall provide such flaggers and barricades as required to protect the uncured slurry seal from vehicular traffic. Where necessary as directed and approved by the Inspector, the contractor shall spread a thin pathway of sand across the fresh slurry at pedestrian crossings and high traffic street intersections to allow traffic to cross perpendicular to the mat. Any damage to the uncured slurry shall be the responsibility of the contractor.

The City shall provide the contractor "NO PARKING" signs for use in posting streets in advance of slurry sealing. Streets may be posted "NO PARKING" between the hours of 7:00 AM and 5:00 PM. Posted parking prohibitions shall be restricted to one working day. Parking prohibitions proposed outside of the listed time frame or for more than one working day, must have prior approval, in writing, from the Engineer. Streets not completed must be rescheduled.

**SPECIAL SPECIFICATIONS**  
**SCHEDULE "A": SLURRY SEALS**  
2013 Pavement Management Program  
#20552222-6102

Signs should be placed no less than thirty-six (36) hours or no more than seventy-two (72) hours prior to commencement of work. These "NO PARKING" signs shall be mounted by the contractor on a suitable pedestal, e.g. tripod, barricade, etc., provided by the contractor. Signs shall be posted every 100 feet on both sides of the street affected. At the completion of all work, all used "NO PARKING" signs shall be appropriately disposed of by the contractor. At the end of the project, any unused "NO PARKING" signs shall be returned to the Engineer.

The City shall also provide the contractor with door-knob notices in sufficient quantities which will further serve to advise the general public of the pending parking restrictions. These notices will also provide general information. ***The notices shall be left on or at the front door of each dwelling, apartment unit, or tenant of a commercial unit abutting any of the streets on the list.*** The notices will also need to be placed on any front door where the only access to the roadway is being affected (i.e. a cul-de-sac, alley, private street, etc. that enters onto a roadway being slurried). This should be done at the same time the "NO PARKING" signs are first placed in the area. Each day, prior to commencement of work, the contractor shall verbally contact, whenever possible, the residents to notify them of impending work. Notification shall be given enough in advance to allow residents to move personal vehicles prior to work beginning. At the end of the project, any unused door hangers shall be returned to the City Project Manager.

The contractor shall log the posting of the "NO PARKING" signs and door hangers in order for towing to occur for slurry seals. The log will be submitted on a weekly basis to the Inspector and contain the following minimum information:

- Street Name
- Location (From and To)
- Date Posted
- Time Posted
- Posted By

Payment for traffic control shall be lump sum and shall include all labor, permits, equipment, and materials necessary to coordinate and comply with current MUTCD, OTTCH and City standards.

## **6. Materials**

**6.1. Emulsified Asphalt:** The asphalt emulsion shall be homogenous and shall be a latex modified cationic quick-setting asphalt emulsion. The latex polymer material shall be co-milled with the emulsion solution. The emulsion manufacturer shall certify that the emulsion contains a minimum of 2.5-3% latex solids based on the weight of asphalt (asphalt residual) within the emulsion for each load. The emulsified asphalt shall be within  $\pm 1\%$  of the design emulsion content.

The LMCQS-1h latex modified quick setting asphalt emulsion shall meet the following requirements when tested according to AASHTO T59:

TEST	SPECIFICATION
Saybolt Viscosity, seconds at 77°F (25°C)	15-50
Residue from Distillation, Mass (Weight)%	<b>60% minimum</b>
Sieve Test, % Retained on No. 20 (850µm) Sieve	0.1 maximum
Particle Charge, Electroplate	Positive
Settlement (Storage Stability), 24 hour	1% maximum
Cement Mixing Test	(informational)

**SPECIAL SPECIFICATIONS**  
**SCHEDULE "A": SLURRY SEALS**  
 2013 Pavement Management Program  
 #20552222-6102

The residue shall pass the following specifications:

TEST	SPECIFICATION
Penetration at 77°F(25°C), 3.5 ounces (100 grams), 5 seconds.	40-90 minimum
Solubility in CS <sub>2</sub> or TCE	97.5 minimum
Softening Point (ring & ball) Degrees F.	130 minimum
Ductility at 77°F (25°C), inch (cm)	15.7 (40) minimum

*Each load of emulsified asphalt shall be accompanied with a Certificate of Analysis/Compliance to assure that it meets specification and is the same as that used in the mix design.*

**6.2. Aggregate:**

**6.2.1. General:** The aggregate used shall be clean, angular, durable, well graded, and uniform. It shall be resistant to abrasion and free from lamination, weak cleavages, and undesirable weathering. The aggregate shall consist of broken stone, crushed gravel, slag, or a combination thereof. To assure the material is totally crushed, 100 percent of the parent aggregate shall be larger than the largest stone in the gradation to be used.

**6.2.2. Laboratory Evaluation:** Aggregate shall meet the following test requirements:

TEST	SPECIFICATION
Abrasion Resistance, AASHTO T96	35% Maximum
Soundness, AASHTO T104	
Using Na <sub>2</sub> SO <sub>4</sub>	15% Maximum
Using MgSO <sub>4</sub>	25% Maximum
Sand Equivalent, AASHTO T176	<b>60 Minimum</b>

**6.2.3. Grading:** Percentage composition by weight of the aggregate shall conform with the following gradation prior to the addition of any mineral fillers such as cement or lime. The percentage of aggregate passing any two successive sieves shall not change from one end of the specified range to the other end. The finished product shall be clean, uniform in quality and free from wood, bark, roots and other deleterious materials.

SIEVE	TYPE I % PASSING	TYPE II % PASSING	STOCKPILE TOLERANCE
3/8" (9.55mm)	100	100	0
No. 4 (4.75 mm)	100	90-100	± 5%
No. 8 (2.36 mm)	90-100	65-90	± 5%
No. 16 (1.18mm)	65-90	45-70	± 5%
No. 30 (600 µm)	40-65	30-50	± 5%
No. 50 (300 µm)	25-42	18-30	± 4%
No. 100 (150 µm)	15-30	10-21	± 3%
No. 200 (75 µm)	10-20	5-15	± 2%

**SPECIAL SPECIFICATIONS**  
**SCHEDULE "A": SLURRY SEALS**  
2013 Pavement Management Program  
#20552222-6102

**6.3. Mineral Filler:** Portland cement, hydrated lime, limestone, dust, fly ash or other approved filler meeting the requirements of ASTM D242 shall be used if required by the mix design. They shall be considered as part of the dry aggregate.

**6.4. Water:** Water used with the slurry mixture shall be potable, reasonably free from oil, dirt, silt and harmful salts. The Contractor shall ensure that the water planned for use shall be compatible with the slurry mix. If the quality of the water is in question, it should be submitted to the laboratory with the other raw materials for the mix design.

When water is obtained from City fire hydrants, the contractor is required to obtain all necessary permits and meters from the City of Hillsboro Water Department. Cost of the permits and water shall be incidental to the unit bid prices for slurry seal. For information regarding necessary permits and fees, contact the Water Department at 503-615-6700.

**6.5. Additives:** Additives may be used to accelerate or retard the break-set of the slurry seal or to improve the resulting finished surface only when their quantity can be metered. The use of additives in the slurry mix (or individual materials) shall be made initially in quantities predetermined by the mix design with field adjustments, if required after approval by the City Project Manager.

**7. Job Mix Formula (JMF)**

At the preconstruction conference, the contractor shall submit a signed original slurry seal mix design incorporating the aggregate and asphalt materials to be used on the project. Percentages of each individual mix material required shall be shown on the mix design report. The mix design shall be developed using the specific materials and same aggregate gradation that will be used for this project and that the treated area will be opened to traffic within 2-3 hours after placement. Previous mix designs shall not be accepted unless authorized by the City Project Manager. After the mix design has been approved, no substitution will be permitted unless first tested and approved by the laboratory preparing the mix design and then approved by the City Project Manager. Water, not exceeding 11% by mass (weight) to asphalt emulsion, shall be used to develop a good mix. ***No work will begin prior to acceptance and approval of the mix design submittal.***

**7.1. Laboratory Evaluation:** Have the mix design prepared and tested by a laboratory which has experience in designing emulsified asphalt slurry seal surfacing. Determine the proportion of component materials and perform tests shown in Section 6.

**7.2. Mix Design Tests:**

TEST	DESCRIPTION	SPECIFICATION
ISSA TB-106	Slurry Seal Consistency	<b>0.79 – 1.18 inches (2-3 cm)</b>
ISSA TB-139	Wet Cohesion,  30 minute set 60 minute set	12 kg-cm Minimum 20 kg-cm Minimum
ISSA TB-114	Wet striping	Pass (90% minimum)
ISSA TB-100	Wet-Track Abrasion Loss, One hour soak	75 g/ft <sup>2</sup> (807 g/m <sup>2</sup> ) Maximum
ISSA TB-113	Mix Time @ 77°F (25°C)*	Controllable to 180 seconds minimum

\* The mixing test and set time should be done at the highest temperature expected during construction.

The wet track test is used to determine the minimum asphalt content required in a slurry seal system.

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The mixing test is used to predict how long the material will be mixed in the machine before it begins to break. The laboratory should verify that mix and set times are appropriate for the climatic conditions expected during the project.

The laboratory shall also report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect) according to AASHTO T19. The report shall clearly show the proportions of aggregate, the minimum and maximum proportions of mineral filler and water, additive usage, and asphalt emulsion based on the dry weight (mass) of the aggregate.

All the component materials used in the mix design shall be representative of the materials proposed for use on the project.

Show the percentages of each individual material required in the laboratory report. Adjustments may be required during the construction, based on the field conditions. The Engineer will give final approval of such adjustments.

- 7.3. Component Materials:** The Engineer will approve the mix design, all slurry seal materials and methods prior to use. The component materials shall be within the following limits:

COMPONENT MATERIALS	LIMITS
Residual Asphalt	Type I: 10-16% Type II: 7.5-13.5% (based on dry weight of aggregate)
Mineral Filler	<b>0.0-3.0%</b> (based on dry weight of aggregate)
Additives	As needed.
Water	As needed to achieve proper mix consistency. Total mix liquids shall not exceed the loose aggregate voids. Use ISSA T106 to check optimum liquids.

**8. Tolerances and Limits**

Tolerances for individual materials as well as the slurry seal mixture during production are as follows:

- After the designed residual asphalt content is determined, a plus or minus one percentage point by weight of dry aggregate will be permitted.
- The percentage of aggregate passing each sieve shall be within the stockpile tolerance range as stated in 6.2.3.
- The percentage of aggregate passing shall not go from the high end to the low end of the specified range of any two successive sieves.
- The slurry consistency shall not vary more than plus or minus 2 inches (50 mm) from the job mix formula after field adjustments.
- The rate of application, once determined by the Engineer, shall not vary more than plus or minus 2 lbs/yd<sup>2</sup> (1.0 kg/m<sup>2</sup>) while remaining within the design application rates.

**9. Protection of Work Materials**

- 9.1. Stockpiling Materials:** The contractor shall be fully responsible for the location of, and obtaining permission to use, stockpile sites. The contractor shall make his own arrangements for its use and assume full responsibility for its rental, preparation, maintenance, and cleanup in a manner satisfactory to the City and the property owner. Precautions shall be taken to ensure that stockpiles do not become contaminated with oversized rock, clay, silt, or excessive amounts of moisture. Segregation of aggregate will not be permitted. Aggregate samples will be taken from field stockpile locations, prior to any addition of mineral fillers.

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**9.2. Emulsion Storage:** The contractor shall provide suitable storage facilities for the asphalt emulsion so as to prevent water from entering the asphalt. An acceptable heating system shall be provided if necessary to prevent the emulsified asphalt from freezing, but the asphalt shall not be heated to a temperature greater than 130° F.

**10. Quality Control**

Quality Assurance testing and inspection will be provided by the City of Hillsboro. Quality Control will be the Contractor's responsibility. Acceptance samples of the aggregate, asphalt emulsion, and slurry seal mixture (taken directly from the mixing unit) shall be taken by the contractor in the presence of the Project Inspector on a random basis with no cost to the City. A minimum of one (1) sample of the aggregate, asphalt emulsion, and slurry seal mixture will be taken each day of use. If any changes are made during the day an additional sample of the micro-surfacing mixture will be taken. Testing containers will be provided by the City. These samples will be tested, at the Contractor's expense if the City Project Engineer deems it necessary, based on the finished appearance and/or quality of quantitative measurements made during the proportioning of the slurry seal components while mixing and placing. The responsibility for ensuring that the work is constructed in strict conformance with the plans, specifications, and other Contract documents resides solely with the Contractor.

**11. Equipment**

All equipment, tools, and machines used in performance of this work shall be maintained in satisfactory working condition at all times to ensure a high-quality product.

**11.1. Mixing Equipment:** The machine(s) shall be specifically designed and manufactured to lay slurry seal. Mix slurry seal in continuous pug mill mixers; a self-propelled machine specifically designed and manufactured to accurately deliver and proportion the aggregate, emulsified asphalt, mineral filler, control setting additive and water to a revolving blade mixer that discharges the thoroughly mixed product on a continuous flow basis. Concrete transit mixer trucks shall not be used. Minimum slurry seal machine size shall be 7 cubic yards (5.35 m<sup>3</sup>). In the case of equipment failure have a minimum of two machines on site with another off site for immediate backup. The machine shall be capable of mixing materials at pre-set proportions regardless of the speed of the machine and without changing machine settings. During placement of the slurry, the equipment shall not exceed 180 feet per minute.

The mixing machine shall be equipped with an approved fine feeder that provides an accurate metering device or method to introduce a predetermined proportion of mineral filler into the mixer at the same time and location that the aggregate is fed. Use the fine feeder whenever added mineral filler is a part of the aggregate blend.

**11.1.1. Proportioning Devices:** Calibrate and properly mark individual volume or mass (weight) controls, such as revolution counters or similar devices, for proportioning each material to be added to the mix (i.e., aggregate, mineral filler, additive, emulsified asphalt and water). They shall be accessible for ready calibration and so placed that the Engineer may determine the amount of each material used at any time. Instruct the Engineer how to calculate the application rate per square yard (square meter) utilizing the Contractor's proportioning devices.

The Contractor shall allow the Engineer to use the recorders and measuring facilities of the slurry seal unit to determine application rates, asphalt emulsion content, mineral filler and additive quantities for a single load.

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**11.1.2. Calibration:** Calibrate, in the presence of the Project Inspector, each slurry mixing unit to be used on the Project prior to construction. Previous calibration documentation covering the exact materials to be used may be accepted by Project Inspector provided they were made during the **previous 60 days**. The documentation shall include an individual calibration of each material at various settings, which can be related to the machines metering devices. No machine will be allowed to work on the Project until the calibration has been completed and/or accepted. **Any equipment replacement affecting material proportioning requires that the machine be recalibrated.**

**11.1.3. Spreading Equipment – Spreader Box:** Attach to the mixer machine a mechanical type squeegee distributor equipped with flexible material that is in contact with the pavement surface to prevent the loss of slurry from the distributor. Adjust the distributor to prevent the loss of slurry on varying grades and crown and to assure uniform spread. The slurry seal mixture shall have the proper consistency as it enters the spreader box. Spraying of additional water into the spreader box will not be permitted. There shall be a steering device and a flexible strike-off. The spreader box shall have suitable means to side shift to compensate for variations in the pavement width. Keep the spreader box reasonably clean, and do not allow buildups of asphalt and aggregate. Only one tail rubber will be allowed. Any type of drag used shall be subject to approval by the Engineer and kept in a completely flexible condition at all times. The drag shall not leave a rough surface texture. The drag shall be cleaned or replaced as necessary to ensure that slurry mix accumulations do not cause scores or streaks.

The slurry seal spreader box in use shall be clean and free of slurry seal and emulsion at the start of each work shift.

## **12. Construction**

**12.1. Hours of Work:** General hours of work shall be limited to 7:00 AM to 5:00 PM Monday through Friday, unless otherwise approved by the Project Manager. Under no circumstances will work be allowed on Sundays or Holidays. Work is not permitted near schools at times when students are arriving or departing. Hours of work may also be affected on those roadways abutting other agency roadways. ***Slurry seal shall be applied only between the hours of 8:00 AM and 3:00 PM and must be able to support traffic by 5:00 PM.*** Permission to work outside these hours may be granted on a case-by-case basis upon application to the Project Engineer. The Contractor has full responsibility for confining operations, including striping, to these hours and obtaining any needed waivers.

The contractor will need to schedule work so as not to interfere with the Tuesday Market, Washington County Fair (July 25<sup>th</sup>-28<sup>th</sup>), 2013 Oregon Air Show (July 26<sup>th</sup>-28<sup>th</sup>), Celebrate Hillsboro (July 20<sup>th</sup>), or any other special events.

**12.2. Weather Limitations:** Do not apply the slurry seal if either the pavement or air temperature is below 50°F (10°C) and falling and/or when the weather forecast exceeds 40 percent probability of rainfall. The slurry seal may be applied when both the pavement and air temperature are above 45°F (7°C) and rising. Do not apply if there is a danger that the finished product will freeze before 24 hours. Do not apply when weather conditions prolong opening to traffic beyond a reasonable time (2-3 hours). Do not apply in the rain. Replace slurry damaged by rain after application according to the Specifications, and as determined by Engineer, at no additional cost. Clean the street of all remaining slurry mix materials prior to re-application.

Adjust the rate of application of the fog spray during the day to suit temperatures, surface texture, humidity and dryness of pavement surface. Do not spray additional water into the spreader box.

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**12.3. Preparation of Surface:**

**12.3.1. Street Equipment and Procedure:** The existing pavement shall be swept with a vacuum sweeper with blowers until it is free from dirt or other foreign matter such as moss, weeds, oil spots, etc. Areas inaccessible to the vacuum sweeper shall be cleaned by hand, pressure spray, or other equipment as necessary to thoroughly clean the roadway. Finish sweeping no more than 24 hours prior to application of the slurry seal. If there is a delay of more than 48 hours between sweeping and slurry sealing caused by weather conditions or other unforeseen circumstances, re-sweep as determined by the Engineer, at no additional cost to the Agency. Payment for street preparation shall be incidental to the unit prices for slurry seal.

The contractor may utilize the Public Works site to clean out sweepers with prior approval from Clarence Gladden (503-615-6587). Cleaning of the sweepers cannot interfere with Public Works operations. Dumping of materials is prohibited, only cleaning.

**12.3.2. Auxiliary Equipment:** Hand squeegees, hand drags, shovels, an asphalt distributor, and other support and safety equipment shall be provided as necessary to perform the work. Containers shall be required for disposal of waste slurry.

**12.3.3. Utility Covers:** The contractor shall be responsible for verifying utility locations in the field and taking necessary precautions to protect all existing utilities. Protect manholes, valve boxes, catch basins, survey monument boxes, drop inlets and other service entrances from the slurry seal by a suitable method. Clean these covers as quickly as possible after the application of the slurry seal and definitely prior to the final set. If necessary, clean slurry residual from the interior of the utilities.

**12.3.4. Tack Coat:** When slurry seal is placed over a brick or Portland cement concrete surface, a highly absorbent asphalt surface, over an asphalt surface where the exposed aggregate has become polished and slick, use a tack coat of emulsified asphalt of the same type and grade specified for the slurry seal. Consult with the slurry seal supplier to determine dilution stability. The tack coat may consist of one part emulsified asphalt to one part water and should be applied with a standard distributor. The distributor shall be capable of applying the dilution evenly at a rate of 0.05 to 0.10 gal/yd<sup>2</sup>. The tack coat shall be allowed to cure sufficiently before the application of slurry seal.

**12.3.5. Pavement Markings:** Remove all reflector buttons, thermoplastic markings, cold tape markings, and paint markings before slurry seal is to be applied to any area, as determined by the Project Engineer. ***Pavement markings shall not be removed more than 7 days in advance of the slurry seals. Slurry work will be shut down if the pavement markings have not been removed.*** Payment for removal of pavement markings is considered incidental.

**12.4. General:** The surface shall be wetted by fogging ahead of the slurry box, if required by local conditions. Apply water used in wetting the surface at such a rate that the entire surface is damp with no apparent flowing water in front of the slurry box. The slurry mixture shall be of the desired consistency upon leaving the mixer. Do not add additional elements. Carry a sufficient amount of slurry in all parts of the spreader at all times so that complete coverage is obtained. Do not allow rippling, lumping, balling, or unmixed aggregate in the spreader box. Do not allow segregation of the emulsion and aggregate fines from the coarse aggregates. If the coarse aggregate settles to the bottom of the mix, remove the slurry from the pavement. Do not allow excessive breaking of the emulsion in the spreader box. Do not leave streaks, such as caused by oversized aggregate, in the finished pavement. Maximum mixing time in the pugmill shall be four minutes.



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- 12.5. Application Rate:** The slurry seal mixture shall be of proper consistency at all times so as to provide the application rate required by the surface condition. The average application rate shall be 10 to 12 lb/yd<sup>2</sup> for Type I slurry and 12 to 18 lb/yd<sup>2</sup> for Type II slurry. Application rates are affected by the unit weight of the aggregate, the gradation of the aggregate and the demand of the surface to which the slurry seal is being applied. ISSA TB112 gives a method to determine expected application rates.
- 12.6. Joints:** Construct a uniform line along the edge and a good seal at curb lines. Construct the flow line at curbs to allow storm drainage flow to catch basins without bonding along the curb line. In the case of a concrete gutter, cover the gutter line joint with the slurry seal, but do not overlap onto the gutter. Remove any overlap, as determined by the Engineer, at no additional cost. Streets that have been recently slurry sealed that cross this Project shall not be slurry sealed again. The slurry joints and panels shall be straight, neat and uniform and follow the contour of the existing curb or concrete gutter. Unless otherwise approved, the overlap of joints will not exceed 2 inches and shall be feathered. Floating (adding additional water other than what is required for the approved mix design) of the emulsion or slurry mixture in the pugmill and/or spreader box to cover or overlap missed areas will be prohibited. At street intersections at the beginning and ending of work segments, the slurry shall be neatly spread or trimmed to a straight line defined by the near curb lines of the street adjacent to the work.
- 12.7. Handwork:** Use approved squeegees to spread slurry in areas not accessible to the slurry mixer. Limit handwork at the beginning and end of the panels to prevent segregation of the rock from the emulsion and to minimize cosmetic drag mop marks and/or defects in the finished product. The same type finish as applied by the spreader box shall be required. Complete handwork prior to setting of the slurry.
- 12.8. Curing:** The rate of curing of the slurry seal shall be such that a street may be opened to traffic within 4 hours after application without tracking or damage to the surface. Protect the area for the full curing period with suitable barricades or markers. The street will be opened to traffic only when approved by the project inspector. The Contractor will be responsible for any damage to the slurry seal due to traffic or other, prior to specific notice to open a particular street. Repair all damage to the slurry, to the satisfaction of the Engineer, at no additional cost to the Agency.
- 12.9. Dust Control:** The contractor shall assume all responsibility for dust control and shall furnish labor and materials to prevent the creation of dust damage and nuisance to persons and property. Any claim resulting there from shall be the responsibility of the contractor. Dust control shall be considered incidental to the unit prices for slurry seal.
- 12.10. Patching and Correction of Defects:** Defects such as raveling, lack of uniformity, or other imperfections caused by faulty workmanship shall be corrected and new work shall not be started until such defects have been remedied.
- All improper workmanship and defective materials resulting from overheating, improper handling or application, shall be removed from the roadway by the contractor and be replaced with approved materials and workmanship at no expense to the contracting agency. The area of the repair shall be approved by the Engineer.
- 12.11. Cleanup:** The contractor shall be fully responsible for maintenance and clean up of excess aggregate materials and emulsion from streets, driveways, sidewalks, curbs, gutters, manholes, water valves, etc. within 48 hours after application of slurry seal. Payment for cleanup will be included under the lump sum item "Move in, Bond, Insurance, and Clean-Up."

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**13. Measurement**

The accepted quantities of slurry seal will be paid for at the Contract unit price per square yard for the item "Slurry Preparation and Application of Asphalt Emulsion Slurry Seal". Payment will be payment in full for furnishing and placing all materials and furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

**14. Striping, Marking, and Reflectorization**

All stop bars, crosswalks and special markings shall be replaced at original locations. ***The contractor is responsible for pre-marking replacement locations.*** The contractor shall notify Brad Eckland (503-615-6562), the City Traffic Supervisor or designee a minimum of **48 hours** for verifying layout prior to installing any material or to obtain assistance in re-establishing marking locations. All long lines shall be spray liquid thermoplastic at 90 mils thick and all legends and transverse markings high skid pre-formed fused thermoplastic at 90 mils thick unless otherwise indicated on the bid sheet.

The contractor shall provide and maintain temporary pavement markings in accordance with the MUTCD Part VI for the duration of the project. Temporary pavement markings, most often reflective tabs or reflective foil back tape, will be placed every one hundred (100) feet on the fog line, every forty (40) feet on the center line, and every twenty (20) feet on centerline and lane lines at intersections and in some cases double striping may be required. The reflective foil back tape shall be used to mark out stop bars, crosswalks, and directional arrows where needed. The temporary markings shall match the existing markings and are installed to help guide motorist and pedestrians until the permanent markings can be installed. All temporary striping/markings shall be removed at the time that the permanent striping is being installed. ***If temporary tabs are used, the contractor shall cut the tabs to remove. Pulling of the tabs is prohibited as it causes damage to the freshly laid material.*** Temporary pavement markings with placing and maintaining shall be considered incidental to the project.

The roadway shall be swept clean prior to placement of permanent pavement markings. The sweeping shall be considered incidental and included in the appropriate bid item. The contractor shall replace or install all crosswalks, stop bars, turn arrows, bicycle symbols, yellow centerline, white fog line/bike lane, storage lines, parking lines, blue fire hydrant, two-way and one-way-reflective raised pavement markers. ***Permanent pavement markings shall be reinstalled no sooner than 7 days and no later than 14 days after slurry placement.***

The comments on the spreadsheets list the stop bars and crosswalks, but the quantity is under the 12" white line item.

**15. Coordination**

The contractor will need to coordinate slurry seal of SE 2<sup>nd</sup> Avenue and SE 11<sup>th</sup> Avenue with ODOT's OR8 Project (from Minter Bridge Road to SW 331<sup>st</sup> Avenue). A schedule will be forthcoming once obtained.

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**1. Time of Construction**

Work contemplated in this contract may not commence until July 1, 2013. All work contemplated shall be completed on or before August 30, 2013. Striping may be completed up to two (2) weeks after August 30, 2013.

**2. Preconstruction Conference**

After the execution of the contract, but prior to the notice to proceed, a pre-construction conference between the contractor, all subcontractors and the City shall be held at the City of Hillsboro Civic Center (150 E Main Street, Fourth Floor, Hillsboro, OR 97123). The contractor shall be represented, at a minimum, by a principle of the firm and the superintendent of the project. ***The contractor shall provide the following for the Engineer's approval at the preconstruction conference:***

- a. Preliminary work schedule. At a minimum, the work schedule shall include the locations by day, when notification will be placed for each day (keeping in mind requirements in Section 5 – Traffic Control and Public Notification), striping removal, and striping replacement.
- b. Traffic control plans.
- c. Signed original laboratory report of tests and proposed mix design covering the specific materials to be used on the project.

**3. Scope**

This schedule consists of furnishing all labor, equipment, and materials necessary for the preparation and application of one or more layers of micro-surfacing consisting of polymer modified asphalt emulsion, aggregate, mineral filler, set-control additives, and water and spreading the mixture on a prepared asphalt pavement as shown or directed. The micro-surfacing mix should be capable of being spread in variably thick cross-sections (wedges, wheel path depressions, scratch courses and surfaces) which, ***after 10 minute set time***, curing for initial controlled cross traffic consolidation, resist deformation throughout the entire design tolerance of bitumen content and variable thickness to be encountered. ***The micro-surfacing mix shall be capable of being stacked in multiple lifts without bleeding.***

**4. System**

The Contractor shall use a crew or have a proven representative that has placed micro-surfacing with a performance period of two (2) years minimum ***and a performance reference letter from the owner it was placed for.*** The representative shall provide the City of Hillsboro with references and resume stating the experience of the crew and proven representative. **The requirements of this section shall be submitted with the bid documents at time of bid.**

**5. Areas of Work**

The areas of work are shown in the attached maps and spreadsheets. Do not place micro-surfacing on any portion of a concrete roadway or bridge deck.

**6. Traffic Control and Public Notification**

The contractor shall provide adequate signing and Oregon certified flaggers to ensure the work zone is properly identified in compliance with the *Manual of Uniform Traffic Control Devices*, 2009 Edition (MUTCD) and the *Oregon Temporary Traffic Control Handbook*, December 2011 (OTTCH).

All Oregon certified flaggers shall have:

- a. The mental and physical ability to provide timely, clear, and positive guidance.
- b. A sense of responsibility for safety of public and work crew.
- c. A neat appearance.
- d. A courteous but firm manner.

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- e. Completed an approved work zone traffic control course within the past three (3) years and be able to provide evidence of completion to the Project Inspector upon request.
- f. Two-way radios with extra batteries.
- g. Shall not use personal cell phones while working on the job site.
- h. Shall be able to communicate effectively with the general public, Contractor, Project Inspector.

The flaggers shall know the street system within the surrounding area before directing any traffic. The Contractor shall supply maps of the area if necessary to all flaggers on the job site. The contractor shall have adequate flaggers at each intersection, and shall not use the wait for pilot car signs or road closed signs, unless pre-approved by the Engineer/Inspector for each intersection pertaining to the project.

A detailed traffic control plan(s) shall be supplied to the Engineer at the preconstruction meeting. The plan shall include, but not be limited to all construction signing, flagger locations, types and locations of traffic control devices, construction phasing, method for maintaining traffic signal functions, detours, and accommodations for pedestrian, bicycle, and transit facilities. Roadways shall remain open to traffic flow unless otherwise approved in writing by the Engineer. No work can commence until the traffic control plans have been approved.

The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor's operations. No work shall be done on or adjacent to any traveled way until all necessary signs and traffic control devices are in place.

The contractor shall place Portable Changeable Message Signs (PCMS) a minimum of one (1) week prior to work on SE Century Boulevard and NE 15<sup>th</sup> Avenue. PCMS locations shall not block travel lanes, bike lanes, or sidewalks and should be located within 500 feet of the work zone. The following messages shall be displayed on the PCMS: "ROAD WORK", "M/DD TO M/DD" (dates), "EXPECT DELAYS".

SE Century Boulevard (at SE TV Hwy) abuts an Oregon Department of Transportation (ODOT) roadway. The contractor shall coordinate traffic control and obtain any necessary permits through ODOT by contacting Jim Nelson at 971-673-2942 or [james.a.nelson@odot.state.or.us](mailto:james.a.nelson@odot.state.or.us). NE Harewood Street (at NW Glencoe Road), NE Grant Street (at N 1<sup>st</sup> Avenue), NE Beacon Court (at NE 25<sup>th</sup> Avenue), NW Huffman Street (at NW Brookwood Parkway), NW 235<sup>th</sup> Avenue (at NW Evergreen Parkway), and NW 229<sup>th</sup> Avenue (at NW Evergreen Parkway) abut Washington County roadways. The contractor shall coordinate traffic control and obtain any necessary permits through Washington County by contacting Matthew Aase at 503-846-7628 or [matthew\\_aase@co.washington.or.us](mailto:matthew_aase@co.washington.or.us).

Any permits required to complete the work are the responsibility of the contractor. A copy of the permits shall be submitted to the City's Project Engineer prior to beginning work. If a permit is not required, the contractor will submit written documentation from ODOT or Washington County stating the permit is not required. Permits shall be considered incidental traffic control bid item.

Thirty-six (36) hours prior to starting work on any given group of streets, the contractor is responsible for notifying the Washington County Consolidated Communications Agency (503-629-0111) of any traffic impairment. Notification shall include the exact location of work and the times when work will be performed, stating time of day and the date of street closure. A means of emergency access will be maintained at all times in all work zones.

Work shall be performed in a manner that will minimize inconvenience to businesses and the public. Where roadway width allows, the Contractor shall provide and maintain a minimum of one (1) paved travel lane in each direction, each at least 11 feet wide at all times during the course of construction for the roadways on

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this project. If the roadway width does not allow two lanes of travel, the contractor must maintain bi-directional travel with flaggers and/or pilot cars. The contractor shall at no time close any intersection. Cul-de-sacs and dead ends adjacent to the project site shall have access restored within 4 hours. ***For all business and stadium access, at least one lane of the access shall remain open for bi-directional traffic flow unless alternate access is available. The contractor shall provide the necessary flaggers, barricades and appropriate signage to maintain this access.***

The contractor shall provide such barricades as required to close the street to protect the uncured micro-surfacing from vehicular traffic. When specified, the contractor shall provide such flaggers and barricades as required to protect the uncured micro-surfacing from vehicular traffic. Where necessary, the contractor shall spread a thin pathway of sand across the fresh micro-surfacing at pedestrian crossings and high traffic street intersections to allow traffic to cross perpendicular to the mat as directed and approved by the Inspector. Any damage to the uncured micro-surfacing shall be the responsibility of the contractor.

The City shall provide the contractor "NO PARKING" signs for use in posting streets in advance of micro-surfacing. Streets may be posted "NO PARKING" between the hours of 7:00 AM and 5:00 PM. Posted parking prohibitions shall be restricted to one working day. Parking prohibitions proposed outside of the listed time frame or for more than one working day, must have prior approval, in writing, from the Engineer. Streets not completed must be rescheduled.

Signs should be placed no less than thirty-six (36) hours or no more than seventy-two (72) hours prior to commencement of work. These "NO PARKING" signs shall be mounted by the contractor on a suitable pedestal, e.g. tripod, barricade, etc., provided by the contractor. Signs shall be posted every 100 feet on both sides of the street affected. At the completion of all work, all used "NO PARKING" signs shall be appropriately disposed of by the contractor. At the end of the project, any unused "NO PARKING" signs shall be returned to the Engineer.

The City shall also provide the contractor with door-knob notices in sufficient quantities which will further serve to advise the general public of the pending parking restrictions. These notices will also provide general information. ***The notices shall be left on or at the front door of each dwelling, apartment unit, or tenant of a commercial unit abutting any of the streets on the list.*** The notices will also need to be placed on any front door where the only access to the roadway is being affected (i.e. a cul-de-sac, alley, private street, etc. that enters onto a roadway being micro-surfaced). This should be done at the same time the "NO PARKING" signs are first placed in the area. Each day, prior to commencement of work, the contractor shall verbally contact, whenever possible, the residents to notify them of impending work. Notification shall be given enough in advance to allow residents to move personal vehicles prior to work beginning. At the end of the project, any unused door hangers shall be returned to the Engineer.

The contractor shall log the posting of the "NO PARKING" signs and door hangers in order for towing to occur for micro-surfacing. The log will be submitted on a weekly basis to the Inspector and contain the following minimum information:

- Street Name
- Location (From and To)
- Date Posted
- Time Posted
- Posted By

Payment for traffic control shall be lump sum and shall include all labor, equipment, and materials necessary to coordinate and comply with current MUTCD, OTTCH and City standards. Payment for PCMS shall be on a per unit basis including all labor, equipment, and materials necessary to coordinate and comply with current MUTCD, OTTCH and City standards.

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**7. Materials**

**7.1. Emulsified Asphalt:** The asphalt emulsion shall be homogenous and shall be a polymer modified quick-setting, quick-traffic cationic asphalt emulsion. The polymer material shall be co-milled with the emulsion solution. The emulsion manufacturer shall certify that the emulsion contains a minimum of 4% polymer solids based on the weight of asphalt (asphalt residual) within the emulsion. The emulsified asphalt shall be within  $\pm 1\%$  of the design emulsion content.

The PMCQS-1h polymer modified quick-setting, quick-traffic cationic asphalt emulsion shall conform to the following requirements when tested in accordance with the specified test method:

TEST ON EMULSION	TEST METHOD	SPECIFICATION
Viscosity, Saybolt Fural at 77°F (25°C), sec	AASHTO T59	16-90 sec
Storage Stability Test, 24 Hour, %	AASHTO T59	1% Max.
Settlement, % 5 day	AASHTO T59	5% Max.
Distillation	AASHTO T59	3% Max.
Residue after Distillation	AASHTO T59	64% Min.

TEST ON RESIDUE	TEST METHOD	SPECIFICATION
Penetration at 77°F (25°C), 100g, 5 seconds.	AASHTO T49	40-90
Ductility at 77°F (25°C), 5cm/min.cm	AASHTO T51	60 Min.
Softening Point, R & B, Degrees F.	AASHTO T53	142° Min.
Polymer Content % (Solid polymer content based on weight of asphalt)	AASHTO T53	4% Min.
Or Tortional Recovery	CTM 332	20% Min.

*Each load of emulsified asphalt shall be accompanied with a Certificate of Analysis/Compliance to assure that it meets specification and is the same as that used in the mix design.*

**7.2. Aggregate:** The mineral aggregate used shall be of the type and grade specified for the particular use of micro-surfacing. The aggregate shall be 100% crushed stone such as granite, slag, limestone or other high quality aggregate. The material shall be free from vegetable matter and other deleterious substances. All aggregate shall be free of caked lumps and oversize particles.

**7.2.1. Laboratory Evaluation:** Aggregate shall conform to the following additional requirements:

TEST	TEST METHOD	SPECIFICATIONS
Sand Equivalent	ASTM D2419	65 Min.
Plasticity	ASTM D4398	Non-plastic
Soundness	ASTM C88	<b>15% Max.</b> using Na <sub>2</sub> SO <sub>4</sub> <b>25% Max.</b> using MgSO <sub>4</sub>
Abrasion Resistance	ASTM C131	<b>30% Max.</b> at 500 revolutions on gradation D
Durability Index	CAL TEST 229	70 Min.

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- 7.2.2. Grading:** Percentage composition by weight of the aggregate shall conform to the following gradation and in accordance with **AASHTO T27 and T11**. The percentage of aggregate passing any two successive sieves shall not change from one end of the specified range to the other end. The finished product shall be clean, uniform in quality and free from wood, bark, roots and other deleterious materials.

SIEVE	TYPE III % PASSING	STOCKPILE TOLERANCE
3/8" (9.55mm)	100	0
No. 4 (4.75 mm)	70-90	± 2%
No. 8 (2.36 mm)	45-70	± 2%
No. 16 (1.18mm)	28-50	± 2%
No. 30 (600 µm)	19-34	± 2%
No. 50 (300 µm)	12-25	± 2%
No. 100 (150 µm)	7-18	± 2%
No. 200 (75 µm)	5-15	± 2%

- 7.3. Mineral Filler:** Mineral filler shall be any recognized brand of non-air entrained Portland Cement or hydrated lime that is free of lumps. The type and amount of mineral filler needed shall be determined by the laboratory mix design and will be considered as part of the mineral gradation requirement. An increase or decrease of less than one-percent (1%) may be permitted when the micro-surfacing is being placed if it is found to be necessary for better consistency or set times.
- 7.4. Water:** Water shall be of such quality that the asphalt will not separate from the emulsion before the micro-surfacing is in place on the pavement. If the contractor elects to obtain water from City fire hydrants, the contractor is required to obtain all necessary permits and meters from the City of Hillsboro Water Department. Cost of the permits and water shall be incidental to the unit bid prices for micro-surfacing. For information regarding necessary permits and fees, contact the Water Department at 503-615-6700.
- 7.5. Additives:** Per the mix design for the micro-surfacing.

**8. Mix Design**

*At the preconstruction conference, the Contractor shall submit to the Engineer for approval a signed original laboratory report of tests and a signed original proposed mix design covering the specific materials to be used on the project.* The mix design shall include a certification from the emulsion manufacturer that the materials meet the job specification. Previous mix designs shall not be accepted unless authorized by the Engineer. **No work will begin prior to acceptance and approval of the mix design submittal.**

The tests and mix design shall be performed by a laboratory capable of performing the applicable International Slurry Surfacing Association (ISSA) tests. The proposed micro-surfacing mixture shall conform to the requirements specified when tested in accordance with the following tests:



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TEST	DESCRIPTION	SPECIFICATION
ISSA TB-109	Excess Asphalt	538 g/m <sup>2</sup> (50 g/ft <sup>2</sup> ) maximum
ISSA TB-139	Wet Cohesion, 30 minutes (set time)	12 kg-cm minimum
	60 minutes (traffic time)	20 kg-cm minimum (or near spin)
ISSA TB-114	Wet striping	Pass (90% minimum)
ISSA TB-100	Wet-Track Abrasion, One hour soak, loss	538 g/m <sup>2</sup> (50 g/ft <sup>2</sup> ) maximum
	Six day soak, loss	807 g/m <sup>2</sup> (75 g/ft <sup>2</sup> ) maximum
ISSA TB-147A	Lateral Displacement	5% maximum
	Specific Gravity after 1,000 cycles @ 125 lbs.	2.10 maximum
ISSA TB-144	Classification Compatibility	11 Grade Points Minimum (AAA, BAA)
ISSA TB-113	Mix Time @ 77°F (25°C)	Controllable to 120 seconds minimum

The original laboratory report shall be signed by the laboratory that performed the tests and mix design and shall show the results of the test on individual materials, comparing their values to those required by the specifications. The report shall clearly show the proportions of aggregate, filler, water (minimum and maximum), set control additive, and asphalt solids content (minimum and maximum) based on the dry weight of aggregate. The laboratory shall also report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The mix design will further show recommended changes in cement, water and additive proportions for high temperature weather conditions by reporting proportions of materials required for 60 seconds of mix time.

All the component materials used in the mix design shall be representative of the materials proposed by the Contractor to be used on the project.

Once the proportion of materials to be used are approved by the Engineer, no substitute of other materials will be permitted unless the materials proposed for substitution are first tested and a laboratory report is submitted for the substituted design as specified above. Substituted materials shall not be used until the mix design for those materials is approved by the Engineer.

**9. Proportioning**

Aggregate, mineral fillers, asphalt emulsions, water and additives including set-control agent if used, shall be proportioned by volume utilizing the mix design approved by the Project Engineer. If more than one kind of aggregate is used, the correct amount of each kind of aggregate to produce the required grading shall be proportioned separately, prior to adding the other materials of the mixture, in a manner that will result in a uniform and homogenous aggregate blend.

The percentages of each individual material required shall be shown in the laboratory report. Adjustments may be required during the construction, based on field conditions. The component materials shall be within the following limits:

COMPONENT MATERIALS	LIMITS
Residual Asphalt	5.5% to 10.5% by dry weight of aggregate
Mineral Filler	0% to 3% by dry weight of aggregate
Polymer Content	Minimum 4% solids based on bitumen weight content
Additives	As needed.
Water	As required to produce proper mix consistency

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The completed mixture, after addition of water and any set-control agent, shall be such that the micro-surfacing mixture has proper workability and a) will permit traffic without pilot car assisted traffic control on the micro-surfacing within one (1) hour after placement, and b) will prevent development of bleeding, raveling, separation or other distresses within 15 days after placing the micro-surfacing. However, when ambient temperatures are below 77°F (25°C) traffic may not be permitted on the micro-surfacing until it has sufficiently cured. The time for sufficient curing shall be mutually agreed upon between the Contractor and the Engineer.

The Contractor shall furnish an aggregate moisture determination from the stockpile prior to placing the micro-surfacing and shall be retested if weather conditions have changed the aggregate moisture content appreciably. Aggregate moisture will be accounted for in determining the aggregate/bitumen ratio to be used during placement.

The aggregate shall be proportioned using a belt feeder operated with an adjustable cutoff gate. The height of the gate opening shall be readily determinable. The emulsion shall be proportioned by a positive displacement pump. Any variance rate emulsion pump, if used, shall be calibrated and sealed in its calibrated condition.

The deliver rate of aggregate and emulsion per revolution of the aggregate feeder shall be calibrated at the appropriate gate settings for each mixer-spreader truck used on the project in accordance with these special provisions.

The aggregate belt feeder shall deliver aggregate to the pugmill with such volumetric consistency that the deviation for any individual aggregate delivery rate check-run shall not exceed 2.0% of the mathematical average of three (3) runs of at least three (3) tonnes in duration each. The emulsion pump shall deliver emulsion to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0% of the mathematical average of three (3) runs of at least 300 gallons each in duration. The water pump shall deliver water to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0% of the mathematical average of three (3) runs of at least 300 gallons each in duration.

The emulsion storage located immediately before the emulsion pump shall be equipped with a device, which will automatically shut down the power to the emulsion pump and aggregate belt feeder when the emulsion level is lowered sufficiently to expose the pump suction line.

A temperature-indicating device shall be installed in the emulsion storage tank at the pump suction level. The device shall indicate temperature of the emulsion and shall be accurate to within 5°F.

The maximum temperature of emulsion contained in the mixer-spreader truck emulsion storage tank shall be 120°F.

The belt delivering the aggregate to the pugmill shall be equipped with a device to monitor the depth of the aggregate being delivered to the pugmill. Said device for monitoring the depth of aggregate shall automatically shut down the power to the aggregate belt feeder whenever the depth of the aggregate is less than the target depth of flow. A second device shall be located where it will monitor movement of the aggregate belt by detecting revolutions of the belt feeder. The device for monitoring no flow or belt movement, as the case may be, shall automatically shut down the power to the aggregate belt when the aggregate belt movement is interrupted. This second device will not be required where the aggregate delivery belt is an integral part of its drive chain. To avoid erroneous shutdown by normal fluctuation, a delay of three (3) seconds between sensing and shutdown of the operation will be permitted.

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**10. Protection of Work Materials**

**10.1. Stockpiling Materials:** The contractor shall be fully responsible for the location of, and obtaining permission to use, stockpile sites. The contractor shall make his own arrangements for its use and assume full responsibility for its rental, preparation, maintenance, and cleanup in a manner satisfactory to the City and the property owner. Precautions shall be taken to ensure that stockpiles do not become contaminated with oversized rock, clay, silt, or excessive amounts of moisture. Stockpiles shall be placed in an area that drains readily. Segregation of aggregate will not be permitted. Aggregate samples will be taken from field stockpile locations, prior to any addition of mineral fillers.

**10.2. Emulsion Storage:** The contractor shall provide suitable storage facilities for the asphalt emulsion so as to prevent water from entering the asphalt. An acceptable heating system shall be provided if necessary to prevent the emulsified asphalt from freezing, but the asphalt shall not be heated to a temperature greater than 120°F.

**11. Quality Control**

Quality Assurance testing and inspection will be provided by the City of Hillsboro. Quality Control will be the Contractor's responsibility. Acceptance samples of the aggregate, asphalt emulsion, and micro-surfacing mixture (taken directly from the mixing unit) shall be taken by the contractor in the presence of the Project Inspector on a random basis with no cost to the City. A minimum of one (1) sample of the aggregate, asphalt emulsion, and micro-surfacing mixture will be taken each day of use. If any changes are made during the day an additional sample of the micro-surfacing mixture will be taken. Testing containers will be provided by the City. These samples will be tested, at the Contractor's expense if the Engineer deems it necessary, based on the finished appearance and/or quality of quantitative measurements made during the proportioning of the micro-surfacing components while mixing and placing. The responsibility for ensuring that the work is constructed in strict conformance with the plans, specifications, and other Contract documents resides solely with the Contractor.

**12. Equipment**

All equipment, tools, and machines used in performance of this work shall be maintained in satisfactory working condition at all times to ensure a high-quality product. The Engineer/Inspector shall stop work if insufficient equipment and tools are not available to properly place the material.

***Descriptive information with photos on the micro-surfacing mixing and applying equipment to be used shall be submitted by the Contractor not more than two days following intent to award of the contract.*** The City will review the descriptive information with photos and will advise the Contractor within 5 days regarding approval. Approval of the equipment will be based on its reliability and capability for completing the work satisfactorily without undue delay.

**12.1. Mixing Equipment:** The machine(s) shall be specifically designed and manufactured to lay micro-surfacing. The micro-surfacing shall be mixed in continuous twin-shaft pugmill mixers of adequate size and power for the type of micro-surfacing to be placed. All indicators required in the section entitled "Proportioning" shall be in working order prior to commencing mixing and spreading operations.

Mixer-spreader trucks shall be equipped to proportion emulsion, water, aggregate, and set-control additives by volume. All rotating and reciprocating equipment on mixer-spreader trucks shall be covered with metal guards. The mixer-spreader truck shall not be operated unless all low-flow and no-flow devices and revolution counters are in good working condition and functioning and all metal guards are in place. All indicators by these special provisions shall be visible while walking alongside the mixer-spreader truck.

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**A Continuous Machine shall be used on Arterial/Collector streets, and either a Continuous Machine or Truck Mounted Machine shall be used on residential streets based on Engineer's determination. For this contract, all streets receiving micro-surfacing are considered arterial/collector streets and will require the use of a Continuous Machine.** A continuous machine is capable of loading materials while continuing to lay micro-surfacing, thereby minimizing construction joints. The continuous-run machine shall be equipped to provide the operator with full control of the forward and reverse speeds during application. It shall be equipped with opposite-side driver stations to assist in alignment. The self-loading device, opposite-side driver stations, and forward and reverse speed controls shall be of original-equipment-manufacturer design.

Aggregate feeders shall be connected directly to the drive on the emulsion pump. The drive shaft of the aggregate feeder shall be equipped with a revolution counter reading to the nearest one-tenth of a revolution. The machine shall be equipped with a hydraulically controlled steel pugmill gate for positive discharge and/or shutoff operations. Discharge from the pugmill shall be controlled by a chute or other suitable mechanical device.

**12.1.1. Proportioning Devices:** Calibrate and properly mark individual volume or weight controls for proportioning each material to be added to the mix (i.e., aggregate, mineral filler, additive, emulsified asphalt and water). They shall be accessible for ready calibration and so placed that the Engineer may determine the amount of each material used at any time. Instruct the Engineer/Inspector how to calculate the application rate per square yard utilizing the Contractor's proportioning devices.

**12.1.2. Calibration:** Calibrate, in the presence of the Project Inspector, each mixing unit to be used on the Project prior to construction. Previous calibration documentation covering the exact materials to be used may be accepted by the Inspector provided that no more than 60 days have lapsed. The documentation shall include an individual calibration of each material at various settings, which can be related to the machines metering devices. **Any component replacement affecting material proportioning requires that the machine be recalibrated.** *No machine will be allowed to work on the Project until the calibration has been completed and/or accepted.*

**12.2 Spreading Equipment – Spreader Box:** The micro-surfacing mixture shall be agitated and spread uniformly by means of twin-shafted paddles or spiral augers fixed in the spreader box conforming to the following requirements. The spreader box shall be capable of spreading a traffic lane width up to 14 feet and shall have strips of flexible rubber belting or similar material on each side of the spreader box and in contact with the pavement to positively prevent loss of micro-surfacing from the ends of the box. The micro-surfacing spreader box shall have suitable means provided to side shift the box to compensate for variations in the pavement geometry. Spreader box skids shall be maintained in such a manner as to prevent chatter (wash boarding) in the finished mat.

The spreader box shall have a double strike-off blade design at the rear of the box. The first strike-off blade shall be made of steel or stiff rubber and the second strike-off blade (attached to the first blade) shall be made of a flexible material. Rear flexible strike-off blades shall make close contact with the pavement, and shall be capable of being adjusted to the various crown shapes so as to apply a uniform micro-surfacing coat. A secondary strike-off blade attached to the rear of the spreader box (located behind the double strike-off blades at the rear of the spreader box) shall be provided and shall be adjustable. It shall be designed and operated such that a uniform texture is achieved in the finished surface of the micro-surfacing.

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Flexible fabric drags attached to the rear of the spreader box **will not** be allowed. Strike-off blades (rubber) shall be cleaned or changed daily if problems with cleanliness and longitudinal scouring occur.

**12.3 Spreading Equipment – Wheel Path Depression (Rut) Box:** The wheel path depression box shall be designed as a double chambered box with adjustable screens to regulate depth and shall have a width of between 5-feet and 6-feet. Hydraulic augers set at an angle shall move the mixed material from the rear to the front of the filling chamber. The augers shall push the larger aggregate into the center, deeper section of the wheel path depression and send the fine material toward the edges of the pass to act as a mastic and for feathering down the longitudinal joint along the wheel path.

The micro-surfacing spreader box in use shall be clean and free of micro-surfacing and emulsion, at the start of each work shift.

Micro-surfacing mixture, to be spread in areas inaccessible to the controlled spreader box, may be spread by other methods approved by the Project Engineer.

**12.4 Auxiliary Equipment:** Hand squeegees, hand drags, shovels, an asphalt distributor, and other support and safety equipment shall be provided as necessary to perform the work. Containers shall be required for disposal of waste slurry.

**14. Construction**

**14.1. Hours of Work:** General hours of work shall be limited to 7:00AM to 5:00PM Monday through Friday, unless otherwise approved by the Project Manager. Under no circumstances will work be allowed on Sundays or Holidays. Work is not permitted near schools at times when students are arriving or departing. Hours of work may also be affected on those roadways abutting other agency roadways. ***Micro-surfacing shall be applied only between the hours of 9:00AM and 3:00PM and must be able to support traffic by 5:00PM.*** Permission to work outside these hours may be granted on a case-by-case basis upon application to the Engineer. The Contractor has full responsibility for confining operations, including striping, to these hours and obtaining any needed waivers.

The contractor will need to schedule work so as not to interfere with the Tuesday Market, Washington County Fair (July 25<sup>th</sup>-28<sup>th</sup>), 2013 Oregon International Air Show (July 26<sup>th</sup>-28<sup>th</sup>), Celebrate Hillsboro (July 20<sup>th</sup>), or any other special events. The contractor will also schedule work so as not to interfere with the Hillsboro Hops baseball games (at the Stadium affecting NW Huffman Street, NW 235<sup>th</sup> Avenue, NW Bennett Street and NW 229<sup>th</sup> Avenue) by scheduling work while the team is scheduled for away games. A schedule is attached at the end of these special specifications.

**14.2. Weather Limitations:** Do not apply the micro-surfacing if either the pavement or air temperature is below 50°F (10°C) and falling and/or when the weather forecast exceeds 40 percent probability of rainfall. The micro-surfacing may be applied when both the pavement and air temperature are above 45°F (7°C) and rising. Do not apply if there is a danger that the finished product will freeze before 24 hours. Do not apply when weather conditions prolong opening to traffic beyond a reasonable time. Do not apply in the rain. Replace micro-surfacing damaged by rain after application according to the Specifications, and as determined by the Engineer, at no additional cost. Clean the street of all remaining micro-surfacing mix materials prior to re-application.

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**14.3. Preparation of Surface:**

**14.3.1. Street Equipment and Procedure:** Immediately prior to applying the micro-surfacing, the existing pavement surface shall be cleared of all loose materials, dirt, grease/oil spots, or other foreign matter such as moss, weeds, etc. Cleaning the streets shall be accomplished by a vacuum sweeper with blowers. Areas inaccessible to the vacuum sweeper shall be cleaned by hand, pressure spray, or other equipment as necessary to thoroughly clean the roadway. If water is used, cracks shall be allowed to dry thoroughly before micro-surfacing. The Inspector shall approve the surface preparation prior to micro-surfacing. No dry aggregate either spilled from the lay-down machine or existing on the road, will be permitted. Finish sweeping no more than 24 hours prior to application of the micro-surfacing. If there is a delay of more than 48 hours between sweeping and micro-surfacing caused by weather conditions or other unforeseen circumstances, re-sweep as determined by the Engineer, at no additional cost to the Agency. Payment for street preparation shall be incidental to the unit prices for micro-surfacing.

The contractor may utilize the Public Works site to clean out sweepers with prior approval from Clarence Gladden (503-615-6587). Cleaning of the sweepers cannot interfere with Public Works operations. Dumping of materials is prohibited, only cleaning.

**14.3.2. Utility Covers:** The contractor shall be responsible for verifying utility locations in the field and taking necessary precautions to protect all existing utilities. Protect manholes, valve boxes, catch basins, survey monument boxes, drop inlets and other service entrances from the micro-surfacing by a suitable method. Clean these covers as quickly as possible after the application of the micro-surfacing and definitely prior to the final set. If necessary, clean micro-surfacing residual from the interior of the utilities. Payment for the necessary protective measures of utilities/service entrances is considered incidental to the unit prices for micro-surfacing.

**14.3.3. Pavement Markings:** Remove all reflector buttons, thermoplastic markings, cold tape markings, and paint markings before micro-surfacing is to be applied to any area, as determined by the Engineer. Temporary markings may need to be installed per section 17 as determined by the Engineer. **Pavement markings shall not be removed more than 7 days in advance of micro-surfacing. Micro-surfacing will be shut down if the pavement markings have not been removed.** Payment for removal of pavement markings is considered incidental.

**14.3.4. Tack Coat:** When micro-surfacing is placed over a brick or Portland cement concrete surface, a highly absorbent asphalt surface, over an asphalt surface where the exposed aggregate has become polished and slick or over milled asphalt, use a tack coat of emulsified asphalt of the same type and grade specified for the micro-surfacing. Consult with the micro-surfacing supplier to determine dilution stability. The tack coat may consist of one part emulsified asphalt to three parts water and should be applied with a standard distributor. The distributor shall be capable of applying the dilution evenly at a rate of 0.05 to 0.15 gal/yd<sup>2</sup>. The tack coat shall be allowed to cure sufficiently before the application of micro-surfacing. A tack coat is not required between the leveling/scratch course and the surface course provided the surface course is placed within 30 days of the leveling/scratch course or if the Engineer determines that excessive tracking of material is evident.

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**14.4. Leveling (Scratch Course):** When required on the plans, before the final surface course is placed, use preliminary micro-surfacing materials to fill minor ruts, utility cuts, depressions in the existing surface, etc. Conduct leveling/scratch course as directed by the plans and Engineer/Inspector. Construct each leveling/scratch course by utilizing a full width spreader box with a stiff strike-off and applying only what the surface demands for leveling. Open the leveling/scratch course to traffic at least 24 hours prior to the beginning of any surfacing. Ensure all materials, mixture composition, equipment, and construction procedures meet the specifications of this contract.

**14.5. General:** The surface shall be wetted by fogging ahead of the spreader box, if required by local conditions. Apply water used in wetting the surface at such a rate that the entire surface is damp with no apparent flowing water in front of the spreader box. The micro-surfacing mixture shall be of the desired consistency upon leaving the mixer. Do not add additional elements. Carry a sufficient amount of material in all parts of the spreader at all times so that complete coverage is obtained. Overloading of the spreader shall be avoided. Do not allow lumping, balling, or unmixed aggregate in the spreader box.

No streaks, such as those caused by oversized aggregate, shall be left in the finished surface. If excess streaking develops, the job will be stopped until the Contractor proves to the Project Engineer that the situation has been corrected. Excessive streaking is defined as more than four (4) drag marks greater than one-half ( $\frac{1}{2}$ ) inch wide and four (4) inches long, or one (1) inch wide and three (3) inches long, in any 30 yd<sup>2</sup> area. No transverse ripples or longitudinal streaks of one-fourth ( $\frac{1}{4}$ ) inch in depth will be permitted, when measured by placing a ten (10) foot straight edge over the surface.

**14.6. Application Rate:** The micro-surfacing mixture shall be of proper consistency at all times so as to uniformly spread on the existing surface within the application rate specified herein. When placing full lane width passes, micro-surfacing mixture shall be spread at a rate within 25-30 pounds of dry aggregate per square yard. The exact rate will be determined by the Engineer after taking into account the surface demand of the pavement, the size of the largest particles of aggregate and using the specific weight of the aggregate determined in the mix design. The completed spread will be within 10% of the rate determined by the mix design.

When wheel path depressions have a cross section that is deformed one-half ( $\frac{1}{2}$ ) inch or more, the individual wheel paths must first be filled utilizing a wheel path depression box meeting the requirements of these special provisions. Filling of wheel path depressions shall be accomplished using Type III aggregate. Wheel path depression spread rates will vary with depression depth. Maximum single application for wheel path depressions shall be 1½ inches. Greater depth may require multiple applications in each depression.

Wheel path depression repair shall be constructed with a slight crown to permit initial traffic compaction of the micro-surfacing. At least 12 hours of traffic compaction shall be allowed on freshly filled wheel path depressions before additional lifts are applied as surface courses.

***The contractor shall supply a summary of the aggregate counter and oil used each day to the Engineer on the project.***

**14.7. Joints and Lines:** Longitudinal joints shall correspond with the edges of traffic lanes. The Project Engineer may permit other patterns of longitudinal joints, if such patterns will not adversely affect the quality of the finished product, as determined by the Engineer. Construct the flow line at curbs to allow storm drainage flow to catch basins without bonding along the curb line. In the case of a concrete gutter, cover the gutter line joint with the micro-surfacing, but do not overlap onto the gutter. Remove any overlap, as determined by the Engineer, at no additional cost.

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Longitudinal joints common to two driving lanes shall be butt joints with overlaps not to exceed three (3) inches. Building paper shall be placed at transverse joints, over previously placed micro-surfacing, or other suitable methods, approved by the Engineer, used to avoid double placement of micro-surfacing. Hand tools shall be available in order to remove spillage. Excess buildup, uncovered areas, ridges, or bumps in the finished surface shall not be permitted.

Care shall be taken to ensure straight lines along curbs and shoulders. No runoff on these areas will be permitted. Lines at intersections will be kept straight to provide a good appearance. If necessary, a suitable material will be used to mask off the end of streets to provide straight lines. Edge lines shall not vary by more than  $\pm 2$  inches horizontal variance in any 96 feet of length.

- 14.8. Mix Stability:** The micro-surfacing shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be uniform and homogeneous during and following mixing and spreading. It shall be free of excess water and emulsion and free of segregation of the emulsion and aggregate fines from the coarser aggregate. Under no circumstances shall water be sprayed directly into the lay-down box while laying micro-surfacing material.
- 14.9. Handwork:** Areas which cannot be reached with the mixing machine shall be surfaced using approved hand squeegees to provide complete and uniform coverage. Limit handwork at the beginning and end of the panels to prevent segregation of the aggregate from the emulsion. If necessary, the area to be hand worked shall be lightly dampened prior to mix placement. Care shall be exercised to leave no unsightly appearance and/or defects in the finished product from handwork. The same type finish as applied by the spreader box shall be required.
- 14.10. Curing:** The rate of curing of the micro-surfacing shall be such that a street may be opened to traffic within one (1) hour after application without tracking or damage to the surface. Adequate means shall be provided to protect the micro-surfacing from damage by traffic until such time that the mixture had cured sufficiently so that the micro-surfacing will not adhere to and be picked up by the tires of vehicles. The street will be opened to traffic only when approved by the Inspector. The Contractor will be responsible for any damage to the micro-surfacing due to traffic or other, prior to specific notice to open a particular street. Repair all damage to the micro-surfacing, to the satisfaction of the Engineer, at no additional cost to the Agency.
- 14.11. Dust Control:** The contractor shall assume all responsibility for dust control and shall furnish labor and materials to prevent the creation of dust damage and nuisance to persons and property. Any claim resulting wherefrom shall be the responsibility of the contractor. Dust control shall be considered incidental to the unit prices for micro-surfacing.
- 14.12. Patching and Correction of Defects:** Defects such as raveling, lack of uniformity, or other imperfections caused by faulty workmanship shall be corrected and new work shall not be started until such defects have been remedied.
- All improper workmanship and defective materials resulting from overheating, improper handling or application, shall be removed from the roadway by the contractor and be replaced with approved materials and workmanship at no expense to the contracting agency. The area of the repair shall be approved by the Engineer.
- 14.13. Cleanup:** The contractor shall be fully responsible for maintenance and clean up of excess aggregate materials and emulsion from streets, driveways, sidewalks, curbs, gutters, manholes, catch basins, water valves, etc. within 48 hours after application of micro-surfacing. Payment for cleanup will be included under the lump sum item "Move in, Bond, Insurance, and Clean-Up."



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**15. Test Strip**

The Contractor shall construct a test strip to be evaluated by the Engineer. The test strip shall be 500 feet to 750 feet long and shall consist of all the application courses specified, and shall be constructed at the same time of day or night that the full production will be applied. The test strip may be constructed in two days or nights when multiple course applications are specified. The set time shall be 10 minutes, with controlled cross traffic and resist deformation throughout the entire test strip. Ensure that the micro-surfacing test strip is capable of carrying normal traffic within one (1) hour after application without any damage occurring.

The Engineer will evaluate the completed test strip after 24 hours of traffic to determine if the mix design and placement procedures are acceptable. An additional 24 hours may be required when multiple courses are placed. Full production may begin after the Engineer accepts the test section. If the mix design or the placement procedures are determined by the Engineer to be unacceptable, the test strip shall be rejected, the Contractor shall make modifications and a new test strip shall be constructed. Test strips which have been rejected by the Engineer shall be paid for by the Contractor and shall be considered part of the contract work. If ordered by the Engineer, test strips rejected shall be removed and shall be at the Contractor's expense. The Engineer will determine how many test strips will be allowed.

**16. Measurement and Payment**

The accepted quantities of micro-surfacing will be paid for at the Contract unit price per square yard for the item "Street Preparation and Application of Type III Micro-Surfacing". Payment will be payment in full for furnishing and placing all preparation; mixing and applying these materials; and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified herein.

**17. Striping, Marking, and Reflectorization**

All stop bars, crosswalks and special markings shall be replaced at original locations. ***The contractor is responsible for pre-marking replacement locations on all streets except for NE Harewood Street and SE Century Boulevard between TV Hwy and SE Johnson Street.*** The City will only be responsible for the striping layout to restripe NE Harewood Street to add a bike buffer lane as shown on the attached drawing and on SE Century Boulevard between TV Hwy and SE Johnson Street to adjust the bike lane with the drop right turn only lane. The contractor shall notify Brad Eckland (503-615-6562), the City Traffic Supervisor or designee a minimum of **48 hours** for verifying layout prior to installing any material or for any questions on re-establishing marking locations. All long lines shall be spray liquid thermoplastic at 90 mils thick and all legends and transverse markings high skid pre-formed fused thermoplastic at 90 mils thick unless otherwise indicated on the bid sheet.

There is an adjustment to the left turn arrows on NE Huffman Street, NW 235<sup>th</sup> Avenue, NW Bennett Street, and NW 229<sup>th</sup> Avenue. There is an adjustment on SE Century Boulevard of the left turn arrows, bike symbols, and center turn lane on north side of intersection at Century/Hacienda. The adjustments are shown on the attached aerials. The contractor is responsible for pre-marking the replacement locations of these changes.

The contractor shall provide and maintain temporary pavement markings in accordance with the MUTCD Part VI for the duration of the project. Temporary pavement markings, most often reflective tabs or reflective foil back tape, will be placed every one hundred (100) feet on the fog line, every forty (40) feet on the center line, and every twenty (20) feet on centerline and lane lines at intersections and in some cases double striping maybe required. The reflective foil back tape shall be used to mark out stop bars, crosswalks, and directional arrows where needed. The temporary markings shall match the existing markings and are installed to help guide motorist and pedestrians until the permanent markings can be installed. ***All temporary striping/markings shall be removed at the time that the permanent striping is being installed. If temporary tabs are used, the contractor shall cut the tabs to remove. Pulling of the***

**SPECIAL SPECIFICATIONS**  
**SCHEDULE "B": MICRO-SURFACING**  
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*tabs is prohibited as it causes damage to the freshly laid material.* Temporary pavement markings with placing and maintaining shall be considered incidental to the project.

The roadway shall be swept clean prior to placement of permanent pavement markings. The sweeping shall be considered incidental and included in the appropriate bid item. The contractor shall replace or install all crosswalks, stop bars, turn arrows, bicycle symbols, yellow centerline, white fog line/bike lane, storage lines, blue fire hydrant, two-way and one-way-reflective raised pavement markers. ***Permanent pavement markings shall be reinstalled no sooner than 7 days and no later than 14 days after micro-surfacing placement.***

The comments on the spreadsheets list the stop bars and crosswalks, but the quantity is under the 12" white line item.

**18. Coordination**

The contractor will need to coordinate the micro-surfacing of NW 229<sup>th</sup> Avenue to maintain emergency access for the Ronler Acres Fire Station.

The contractor will need to coordinate work with Schedule "C": Overlays & AC Replacements contractor on SE Century Boulevard, NE Grant Street, and NE 15<sup>th</sup> Avenue due to the proximity of these work areas to the micro-surfacing. A schedule will be forthcoming once obtained.



# HILLSBORO HOPS

## PROFESSIONAL BASEBALL

*Class A Affiliate of the  
Arizona Diamondbacks* **A**



### 2013 Schedule

#### Game Times

Mon-Sat 7:05pm

Sun 1:35pm

\*Friday, July 26<sup>th</sup> - 1:35pm

Home
Away

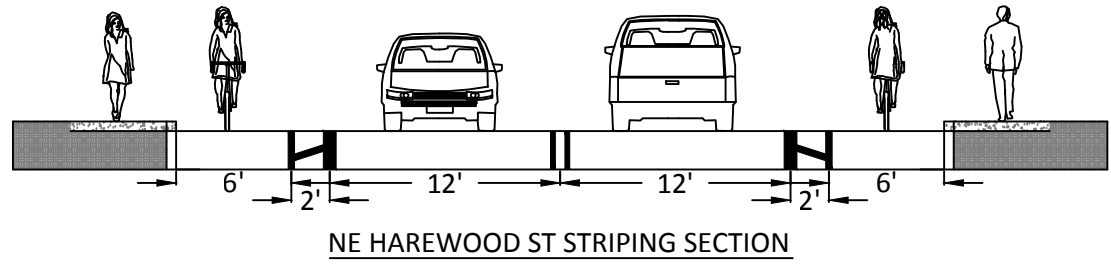
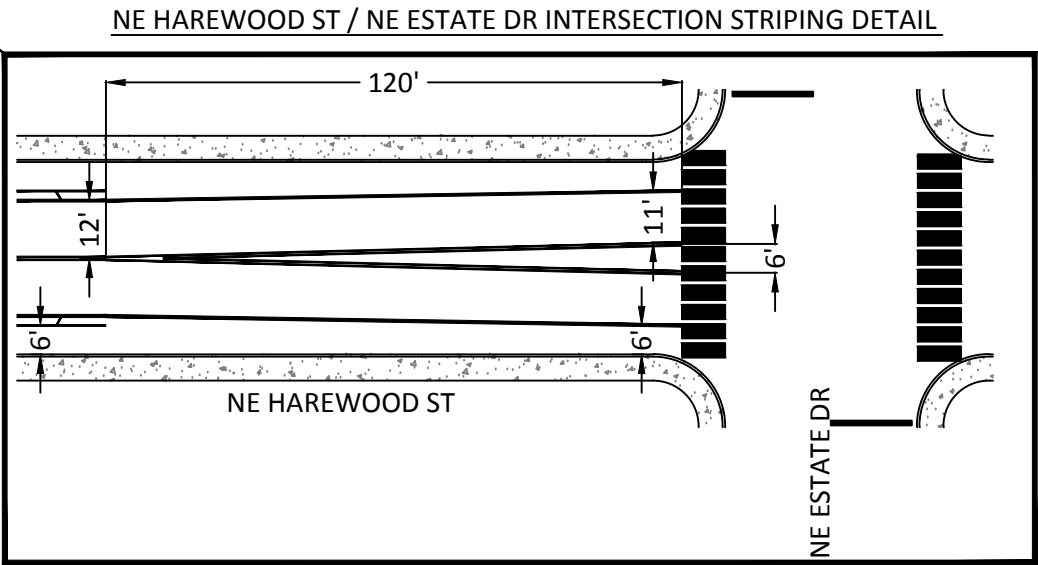
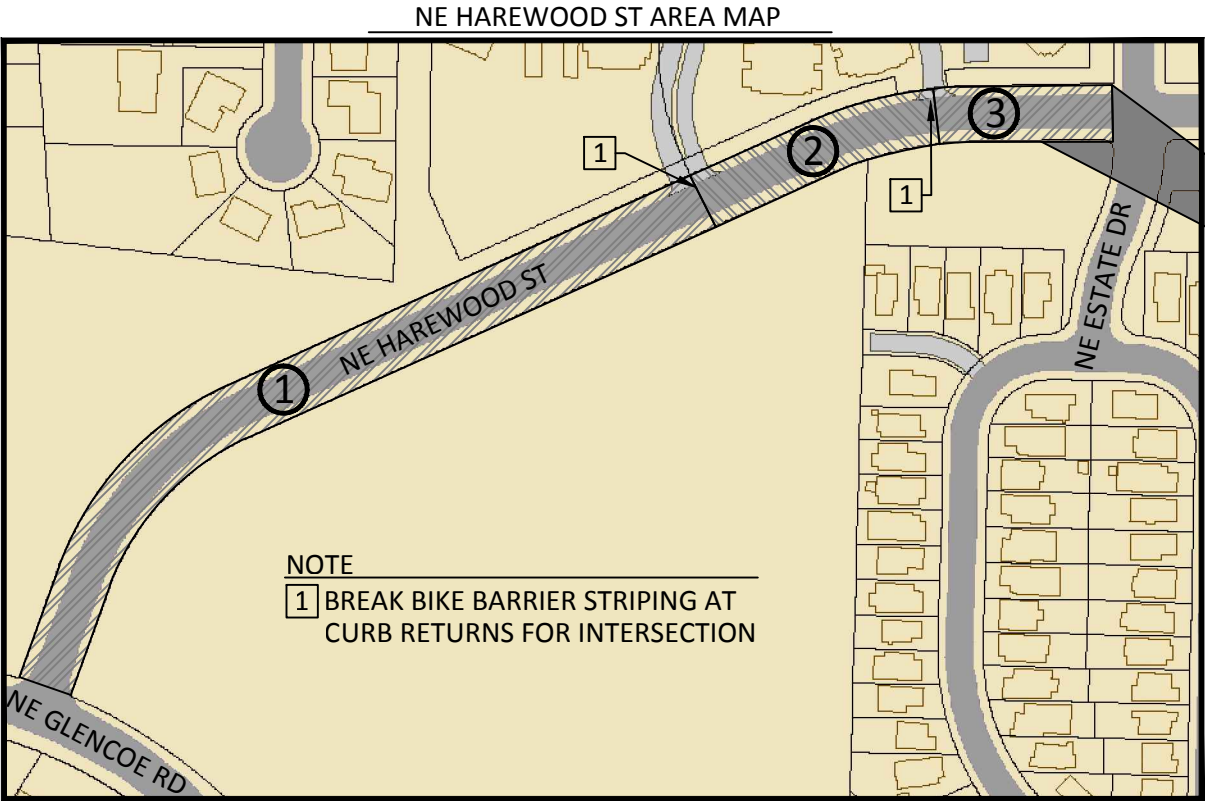
JUNE						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					14 @ SK	15 @ SK
16 @ SK	17 EUG	18 EUG	19 EUG	20 @ EVE	21 @ EVE	22 @ EVE
23 @ EVE	24 @ EVE	25 @ BOI	26 @ BOI	27 @ BOI	28 SK	29 SK
30 SK						
JULY						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 @ EUG	2 @ EUG	3 @ EUG	4 VAN	5 VAN	6 VAN
7 VAN	8 VAN	9 OFF	10 @ TC	11 @ TC	12 @ TC	13 @ TC
14 @ TC	15 BOI	16 BOI	17 BOI	18 SPO	19 SPO	20 SPO
21 SPO	22 SPO	23 @ SK	24 @ SK	25 @ SK	26 * EVE	27 EVE
28 EVE	29 EVE	30 EVE	31 @ VAN			
AUGUST						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 @ VAN	2 @ VAN	3 @ VAN
4 @ VAN	5 ALL-STAR EVENT in Everett	6 ALL-STAR EVENT in Everett	7 ALL-STAR EVENT in Everett	8 TC	9 TC	10 TC
11 TC	12 TC	13 SK	14 SK	15 SK	16 @ SPO	17 @ SPO
18 @ SPO	19 @ SPO	20 @ SPO	21 @ EUG	22 @ EUG	23 @ EUG	24 BOI
25 BOI	26 BOI	27 OFF	28 EUG	29 EUG	30 EUG	31 @ BOI
SEPTEMBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 @ BOI	2 @ BOI	3 -----Potential Playoff Games-----	4 -----Potential Playoff Games-----	5 -----Potential Playoff Games-----	6 -----Potential Playoff Games-----	7 -----Potential Playoff Games-----
8 -----Potential Playoff Games-----	9 -----Potential Playoff Games-----	10 -----Potential Playoff Games-----	11 -----Potential Playoff Games-----	12 -----Potential Playoff Games-----	13 -----Potential Playoff Games-----	14 -----Potential Playoff Games-----

#### North

EVE Everett Aquasox  
SPO Spokane Indians  
TC Tri-City Dust Devils  
VAN Vancouver Canadians

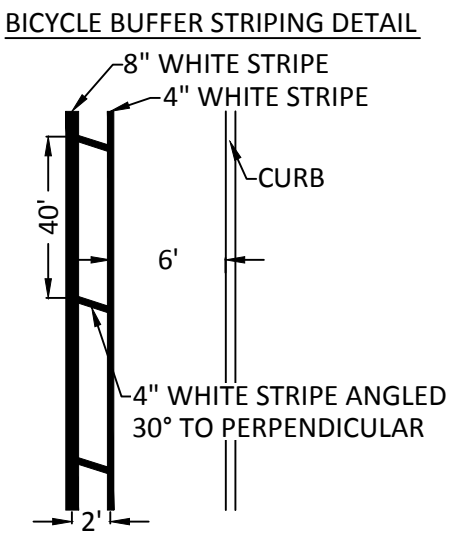
#### South

BOI Boise Hawks  
EUG Eugene Emeralds  
HIL Hillsboro Hops  
SK Salem-Keizer Volcanoes



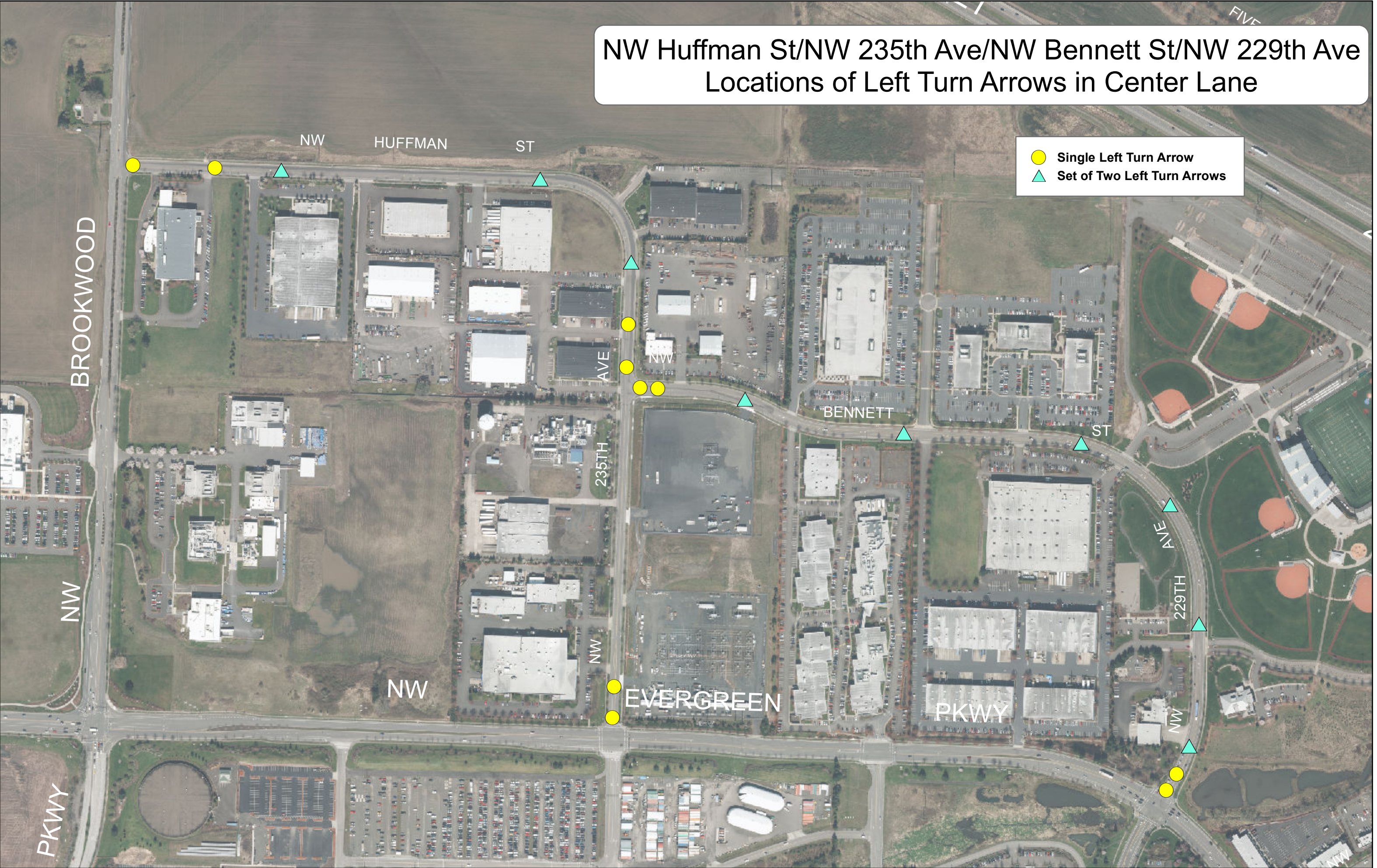
BICYCLE BUFFER STRIPING QUANTITIES

	8" WHITE	4" WHITE
①	2,020'	2,121'
②	550'	578'
③	390'	170'





NW Huffman St/NW 235th Ave/NW Bennett St/NW 229th Ave  
Locations of Left Turn Arrows in Center Lane







**NE Century Blvd**  
**Add Left Turn Arrow/Bike Symbol**  
**Remove Bike Symbols**  
**Adjust Continuous Turn Lane at Hacienda**

**Add Left Turn Arrows - Set of Two**

**Add Bike Symbol**



**Remove bull nose striping and make open continuous center turn lane**

**Remove Bike Symbol and DO NOT Reinstall**



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**SPECIAL SPECIFICATIONS**  
**SCHEDULE "C": OVERLAYS & AC REPLACEMENTS**  
**2013 PAVEMENT MANAGEMENT PROGRAM**  
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**1. Time of Construction**

Work on this contract may not commence until July 1, 2013. All work contemplated in this contract shall be completed by October 4, 2013.

**2. Preconstruction Conference**

After the execution of the contract, but prior to the notice to proceed, a pre-construction conference between the contractor, all subcontractors, and the City shall be held at the City of Hillsboro Civic Center (150 E Main Street, Fourth Floor, Hillsboro, OR 97123). The contractor shall be represented, at a minimum, by a principle of the firm and the superintendent of the project. ***The contractor shall provide the following for the City Engineer's approval at the preconstruction conference:***

- a. Preliminary work schedule. At a minimum, the work schedule shall include the locations, ramp/concrete work, grinding, and overlay with striping.
- b. Traffic control plans.
- c. Tack coat submittal.
- d. List of sources of materials with certificate of compliance and mix design.
- e. Concrete mix submittal.

**3. Scope**

This schedule consists of furnishing all labor and materials necessary to remove and replace defective pavement with asphalt concrete, upgrading handicap ramps, cold planning/grinding, overlaying streets with asphalt concrete, and striping.

**4. Areas of Work**

Areas of work are shown on the maps, spreadsheets, and drawings included in this document.

**5. Hours of Work**

General hours of work shall be limited to 7:00AM to 5:00PM Monday through Friday, unless otherwise approved by the Engineer. Under no circumstances will work be allowed on Sundays or Holidays. Work is not permitted near schools at times when students are arriving or departing. Hours of work may be affected on those roadways abutting other agency roadways. Grinding and paving work shall only be allowed between the hours of 8:00AM and 5:00PM. Permission to work outside these hours may be granted on a case-by-case basis upon application to the Engineer. The Contractor has full responsibility for confining operations to these hours and obtaining any needed waivers.

The contractor will need to schedule work so as not to interfere with the Tuesday Market, Washington County Fair (July 25<sup>th</sup>-28<sup>th</sup>), 2013 Oregon Air Show (July 26<sup>th</sup>-28<sup>th</sup>), Celebrate Hillsboro (July 20<sup>th</sup>), or any other special events.

**6. Coordination**

The contractor will need to coordinate the AC replacement work on NW Connell Avenue with the NW Connell/Garibaldi Street Improvement project. A schedule will be forthcoming once obtained.

The contractor will need to coordinate the concrete panel replacement on NW Tanasbourne Drive with the adjacent businesses as the replacement will affect their driveway access.

The contractor will need to coordinate work with Schedule "B": Micro-Surfacing contractor on NE Griffin Oaks Street, NE Sunrise Lane, NE Grant Street, SE Lois Street and SE Frances Street due to the proximity of these work areas to the overlays. A schedule will be forthcoming once obtained.

The contractor will need to coordinate work on NE Grant Street with the Hillsboro School District due to activities at Hare Field by contacting Loren Rogers at 503-209-6893 or [rogersl@hsd.k12.or.us](mailto:rogersl@hsd.k12.or.us).



**SPECIAL SPECIFICATIONS**  
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**7. Traffic Control and Public Notification**

The contractor shall provide adequate signing and Oregon certified flaggers to ensure the work zone is properly identified in compliance with the *Manual of Uniform Traffic Control Devices*, 2009 Edition (MUTCD) and the *Oregon Temporary Traffic Control Handbook*, December 2011 (OTTCH).

All Oregon certified flaggers shall have:

- a. The mental and physical ability to provide timely, clear, and positive guidance.
- b. A sense of responsibility for safety of public and work crew.
- c. A neat appearance.
- d. A courteous but firm manner.
- e. Completed an approved work zone traffic control course within the past three (3) years and be able to provide evidence of completion to the Project Inspector upon request.
- f. Two-way radios with extra batteries.
- g. Shall not use personal cell phones while working on the job site.
- h. Shall be able to communicate effectively with the general public, Contractor, Project Inspector.

A detailed traffic control plan(s) shall be supplied to the Engineer at the preconstruction meeting. The plan shall include, but not be limited to all construction signing, flagger locations, types and locations of traffic control devices, and construction phasing, method for maintaining traffic signal functions, detours, and accommodations for pedestrian, bicycle, and transit facilities. Roadways shall remain open to traffic flow unless otherwise approved in writing by the Engineer. No work can commence until the traffic control plans have been approved.

The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor's operations. No work shall be done on or adjacent to any traveled way until all necessary signs and traffic control devices are in place.

The contractor shall place Portable Changeable Message Signs (PCMS) a minimum of one (1) week prior to work on NW John Olsen Avenue and NE Grant Street. PCMS locations shall not block travel lanes, bike lanes, or sidewalks and should be located within 500 feet of the work zone. The following messages shall be displayed on the PCMS: "STREET PAVING", "M/DD TO M/DD" (dates), "EXPECT DELAYS".

SE 24<sup>th</sup> Avenue (at TV Hwy) abuts an Oregon Department of Transportation (ODOT) roadway. The contractor shall coordinate traffic control and obtain any necessary permits through ODOT by contacting Jim Nelson at 971-673-2942 or [james.a.nelson@odot.state.or.us](mailto:james.a.nelson@odot.state.or.us). NE Grant Street (at NE Cornell Road), SE Lois Street (at SW Cornelius Pass Road), and NW John Olsen Avenue (at NW Cornell Road and NW Evergreen Parkway) abut Washington County roadways. The contractor shall coordinate traffic control and obtain any necessary permits through Washington County by contacting Matthew Aase at 503-846-7628 or [matthew\\_aase@co.washington.or.us](mailto:matthew_aase@co.washington.or.us). Any permits required to complete the work are the responsibility of the contractor. A copy of the permits shall be submitted to the City's Engineer prior to beginning work. If a permit is not required, the contractor will submit written documentation from ODOT or Washington County stating the permit is not required. Permits shall be considered incidental to the traffic control bid item.

Thirty-six (36) hours prior to starting work on any given group of streets, the contractor is responsible for notifying the Washington County Consolidated Communications Agency (503-629-0111) of any traffic impairment. Notification shall include the exact location of work and the times when work will be performed, stating time of day and the date of work. A means of emergency access will be maintained at all times in all work zones.

**SPECIAL SPECIFICATIONS**  
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The City shall provide the contractor "NO PARKING" signs for use in posting streets in advance of the overlays and AC replacements. Streets may be posted "NO PARKING" between the hours of **8:00 AM and 5:00 PM**. Parking prohibitions proposed outside of the listed time frame, must have prior approval, in writing, from the Engineer.

Signs should be placed no less than thirty-six (36) hours or no more than seventy-two (72) hours prior to commencement of work. These "NO PARKING" signs shall be mounted by the contractor on a suitable pedestal, e.g. tripod, barricade, etc., provided by the contractor. Signs shall be posted every 100 feet on both sides of the street affected. At the completion of all work, all used "NO PARKING" signs shall be appropriately disposed of by the contractor. At the end of the project, any unused "NO PARKING" signs shall be returned to the Engineer.

For streets that will be overlaid, the City shall also provide the contractor with door-knob notices in sufficient quantities which will further serve to advise the general public of the pending parking restrictions and planned work. These notices will also provide general information. ***The notices shall be left on or at the front door of each dwelling, apartment unit, or tenant of a commercial unit abutting any of the streets on the list.*** The notices will also need to be placed on any front door where the only access to the roadway is being affected (i.e. a cul-de-sac, alley, private street, etc. that enters onto a roadway being overlaid). This should be done at the same time the "NO PARKING" signs are first placed in the area. Each day, prior to commencement of work, the contractor shall verbally contact, whenever possible, the residents to notify them of impending work. Notification shall be given enough in advance to allow residents to move personal vehicles prior to work beginning. If work is rescheduled for any reason, the "NO PARKING" signs and notifications need to be appropriately corrected in a timely manner to reflect the change. At the end of the project, any unused door hangers shall be returned to the Engineer.

The contractor shall log the posting of the "NO PARKING" signs and door hangers in order for towing to occur for overlays. The log will be submitted on a weekly basis to the Inspector and contain the following minimum information:

- Street Name
- Location (From and To)
- Date Posted
- Time Posted
- Posted By

Payment for traffic control shall be lump sum and shall include all labor, permits, equipment, and materials necessary to coordinate and comply with current MUTCD, OTTCH and City standards. Payment for PCMS shall be on a per unit basis including all labor, equipment, and materials necessary to coordinate and comply with current MUTCD, OTTCH and City standards.

**8. Hot Mix Asphalt Concrete (HMAC)**

**8.1. Materials:**

- 8.1.1. General:** Only materials conforming to the specifications shall be incorporated in the work. The materials shall be manufactured, handled, and used in a workmanlike manner. All asphaltic concrete to be used in this project shall comply with Oregon's Standard Specifications for Construction (2008), Section 00745 – Hot Mixed Asphalt Concrete (HMAC) and contained in subsections 00745.10 to 00745.12 **and including AASHTO T112 (test for friable particles).**

**SPECIAL SPECIFICATIONS**  
**SCHEDULE "C": OVERLAYS & AC REPLACEMENTS**  
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- 8.1.2. Binder:** The asphalt binder shall be PG 64-22 or an approved alternative. Payment for the binder shall be considered incidental to the unit price of A.C.
- 8.1.3. Aggregates:** The aggregates used in the surface mixes shall have a maximum aggregate size of 0.5 inches and shall meet the gradations for dense graded mixes given in Section 00745.12 of the Oregon Standard Specifications for Construction. The aggregate material shall consist of sound, tough, durable particles, free from adherent films of matter that would prevent thorough coating and bonding with the bituminous material and be free from clay balls, organic matter, man-made debris, and other deleterious substances. Deleterious substances are defined as clay/silt lumps, shale, soft, friable, or laminated particles, vegetable/organic matter, or other objectionable material. ***Each aggregate size group shall have no more than 0.5% clay lumps and friable particles as determined by AASHTO T112.***
- 8.1.4. Mix Design:** The mix design shall conform to the general requirements given in Section 00745 referenced above. The mix design shall be performed by a certified laboratory technician.
- 8.1.5. Mixing and Proportioning:** Asphalt concrete shall be hot plant mixed and shall be furnished from the plant at a temperature not to exceed 325° F (163° C). The mixing temperature shall be selected based on the temperature-viscosity of the binder and shall be included in the mix design.

The Contractor may use warm mix asphalt concrete (WMAC) as a substitute for HMAC on all paving as an option upon approval by the Engineer. WMAC will be subject to all requirements for HMAC in Section 00745, except as modified in these special provisions.

**00745.01 Abbreviations:** Add WMAC – Warm Mix Asphalt Concrete

**00745.02 Definitions:** Add Warm Mix Asphalt Concrete (WMAC) – An asphalt concrete mix following all the requirements of HMAC except that through the use of additives or processes it is mixed and placed at lower temperatures. The term WMAC shall be used interchangeably with HMAC except in subsection 00745.49(a-1).

**00745.11(b) Asphalt Cement Additives:** Add the following to the end of this subsection:

For Warm Mix Asphalt Concrete (WMAC) the additives or processes listed on the following table, or approved equal, shall be used on this contract.

WMAC Technology	Process Type	Supplier
Advera (Synthetic Zeolite)	Foaming Process	PQ Corporation
Aspha-Min (Synthetic Zeolite)	Foaming Process	Aspha-Min
Evotherm	Chemical Additive	Mead/Westvaco Asphalt Innovations
Redi-Set WMX	Chemical Additive	Akzo Nobel Surfactants, Inc.
Sasobit	Organic Additive	Sasol Wax Americas, Inc.
Plant Foaming Equipment	Foaming Process	Various Suppliers

**00745.43(b) Temperatures:** Add the following – For WMAC, complete breakdown and intermediate compaction before the WMAC temperature drops below the threshold recommended by the additive supplier or equipment manufacturer. The temperature thresholds during the process and for placement shall be provided as part of the mix design submittal if using WMAC for approval.

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**8.1.6. Tack Coat:** The tack coat shall conform to Section 00730 Asphalt Tack Coat of the Oregon Standard Specifications of Construction and the manufacturer's specifications. Manufacturer's Specifications shall be provided to the City at the preconstruction conference.

**8.1.7. Submittals:** The Contractor shall furnish the City, at the time of the preconstruction conference, a list of sources of materials together with a certificate of compliance indicating that materials to be incorporated in the work fulfill the requirements of these specifications and a mix design for the asphalt concrete. It is the intent of these Specifications that materials to be incorporated in the work must meet the requirements of these specifications after incorporation in the paved areas shown in the plans. The contractor shall be responsible for all costs associated with the required mix design.

*The Contractor will have their asphalt supplier provide mix samples for oven calibration to the City's tester at no cost.*

**8.1.8. Sampling & Testing:** Sampling and testing shall comply with Oregon's Standard Specifications for Construction, Section 00745. The City will obtain daily samples of materials to be used in the work and test such samples for the purpose of verifying the job mix gradation and asphalt content. Normally the sampling point will be the same as for process control (QC) or the point of manufacture. The owner shall also have the right to inspect sources of materials to be used. All sampling and testing will be performed by certified laboratory technicians including those tests performed by or for the owner (QA).

If the testing results show the material out of specification, the backup sample will be tested. The City and contractor will agree to either have the City's tester conduct the retest or have the retest conducted by a third party tester. If a third party tester is chosen, the contractor will have their asphalt supplier provide mix samples for oven calibration at no cost. The costs associated with the testing of the backup sample will be split between the City and the contractor. If the backup sample test results are within specification, the material will be accepted and the full bid price will be paid. If the backup sample is out of specification, it will be the expense and responsibility of the contractor to resolve and repair any areas out of specification, including and up to removal and replacement.

**8.2. Construction:**

**8.2.1. General:** Asphalt concrete shall be delivered in a thoroughly blended condition and shall be spread by an asphalt paving machine in such a manner as to avoid segregation during the placing operations. Areas inaccessible to spreading and compaction equipment may be paved by such methods as may be approved by the City. All mixtures shall be spread at a temperature not less than 275° F (135° C), and not greater than 325° F (163° C). Initial rolling shall be performed immediately after placement. Pneumatic rollers will not be allowed. Specific compaction temperatures shall be determined using the temperature-viscosity curve of the binder provided in the mix design. Asphalt concrete should not be placed when the atmospheric temperature is below 50° F (10° C) and/or raining.

**8.2.2. Load Restrictions for Construction Vehicles and Equipment:** The contractor shall not use vehicles with rear drop axles in which raising the drop axle would cause the vehicle to exceed legal load limits.

**8.2.3. Overlay Cleaning:** All surfaces to be overlaid shall be swept clean by the contractor no more than 24 hours in advance of paving. The contractor shall remove vegetation prior to washing or sweeping. The contractor shall use vacuum street sweepers that are self propelled equipment with rotating brooms and brushes that are capable of loosening dirt and debris from the road

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surface. In those areas where dirt and debris cannot be removed with sweeping alone, washing of the surface will be required.

Water used shall be from any domestic supply approved by the City. When water is obtained from the City fire hydrants, the contractor shall obtain all necessary permits and meters from the Water Department. Cost of the permit and water shall be considered incidental to the unit bid prices. For more information regarding necessary permits and fees call 503-615-6700.

- 8.2.4. Tack Coat:** Treat all paved surfaces on and against which HMAC is to be placed with an asphalt tack coat according to Oregon's Standard Specifications for Construction, Section 00730 – Emulsified Asphalt Tack Coat, including all vertical surfaces of existing pavement, curbs, gutters, and construction joints. Shields protecting curb faces shall be provided and used during tacking of curb faces. Immediately before applying the tack coat, clean and dry the surface to be tacked. Remove all material, loose or otherwise, that will reduce adhesion of the tack by brooming, flushing with water or other approved methods.

When pavement reinforcement fabric is to be used, application of tack coating will be modified to comply with the fabric manufacturer's specifications.

In all instances, tack coat must be allowed to cure or "break" prior to the application of any fabric or asphaltic concrete. Payment for tack coat will be considered incidental to the unit price for asphaltic concrete.

- 8.2.5. Pre-Leveling/Base Lift:** Those areas designated by the Inspector as requiring pre-leveling, such as depressions, ruts, holes, or uneven surfaces, shall be brought to grade after cleaning and tack coating, prior to overlaying. These areas shall then receive a surface coating of tack prior to overlay. Payment for pre-level or base lifts will be on a per ton bases, per lift price of the individual project being overlaid (i.e. if the project calls for a 2.5" Level 2, ½" dense graded overlay the pre-level/base lift will be paid under that particular bid item and if the project calls for a 2" Level 3, ½" dense graded overlay the pre-level/base lift will be paid under that particular bid item, etc.) with all other costs incidental. Only work that is approved by the Engineer will be subject to payment.

**8.3. Workmanship:**

- 8.3.1. Compaction:** For normal pavements, asphalt concrete shall be compacted to an average relative density of **92.0 percent of the maximum theoretical unit weight (Rice Gravity) for first lift, single lifts and all other applications.** The theoretical maximum unit weight will be determined from production samples of the asphalt concrete on the project. Tests will be run at random locations to verify compaction. Compaction of the mix will be determined by use of a nuclear density gauge. The contractor will provide density testing for the completed sub-lots and will submit results to the Project Manager by the end of the working shift. The City's tester will perform additional random density testing at a minimum of 5 shots per roadway for acceptance.

The contractor shall notify the Engineer/Inspector immediately when the average density does not meet 92% or exceeds 95%. An investigation will be initiated to determine if the results indicate that a problem with the mix is developing before laying any more material. Take all actions necessary to resolve compaction problems. Do not resume paving until allowed by the Engineer.

Take immediate corrective measures when the specified compaction density is not being achieved. At the Engineer's discretion, corrective measures may include removing and replacing areas that fail to comply with compaction requirements.

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The contractor shall provide sufficient personnel and manual compacting equipment to perform all handwork compaction in unison with the initial compaction rolling. If the handwork compaction begins to lag for whatever reason, the contractor shall cease paving operations until the handwork compaction is caught up with the rest of the paving operation. Finish rolling shall be started after the pavement has cooled sufficiently to permit removal of the roller marks and shall be continued as necessary to produce a pavement free of indentations, marks, or ridges.

**8.3.2. Thickness:** The compacted total thickness of any course, other than leveling courses, shall have an average thickness at least equaling the designated thickness. The minimum thickness at any location shall not be less than the specified thickness minus ¼ inch (6.5 mm)

**8.3.3. Finished Surface:** The completed surface shall be thoroughly compacted, smooth, and free from ruts, humps, depressions, irregularities, rock pockets, excessive course aggregate, and roller marks.

Any ridges, indentations, or other objectionable marks left in the surface of the asphalt concrete, shall be eliminated by rolling or other means. The use of any equipment that leaves ridges, indentations, or other objectionable marks in the asphalt concrete shall be discontinued.

Areas of handwork at joints and miscellaneous structures shall match the smooth surface texture of all other areas of the new pavement. *Care shall be taken not to broadcast at longitudinal joints.* Course aggregate removed during raking shall not be returned to the finished mat surface. Cold course aggregate shall not be reused, but discarded. Finished areas of asphalt concrete adjacent to concrete drainage facilities shall be placed in such a manner that the finished surface is no greater than ¼ inch (6.5 mm) higher than and no lower than flush with the facility.

Take immediate corrective measures when segregation or non-uniform surface texture is occurring in the finished mat. If segregation continues to occur, stop production until a plan for providing uniform surface texture is approved by the Engineer.

Remove and replace any HMAC that is loose, broken, mixed with dirt, shows visually too much or too little asphalt, or is defective in any way.

Upon completion of paving, all joints shall be sealed using a combination of approved emulsified asphalt and sand with a minimum of 4.0 inches overlap of the two surfaces. The newly paved surface will be protected from traffic until it has sufficiently cooled and has been properly cured.

**8.3.4. Roof Drains:** The contractor shall keep all curb and/or edge of road drains (roof drains) clear of HMAC.

**8.3.5. Payment:** Payment for asphalt shall be based on a unit price per ton for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

**9. Grinding**

**9.1. Full Width:** For the streets specified, full width grinding of existing asphalt for the full street width shall be done to the depth specified in the bid. Any asphaltic concrete left in place next to the curb or curb and gutter that cannot be removed by the grinder shall be removed by other means. All full width grinding shall be completed no more than **72 hours** in advance of overlay. Payment for this work shall be by the square yard under the specified depths.

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**9.2. Temporary Wedges:** At the end of work day at locations where drop offs exceed 1 inch, temporary wedges which can be readily removed prior to continuation of work shall be placed at vehicle crossings. The wedges shall be no less than 3.0 feet in width and shall be constructed with regard to the posted speed limits for the area. Appropriate signing indicating "Bump" shall be maintained at the location of the wedge(s) until work resumes. Payment for this work shall be incidental to the unit prices for grinding and the signage included in the "Traffic Control" bid item.

**9.3. Curb Inlets and Catch Basins:** The contractor shall be responsible for protecting all curb inlets and catch basin from debris during the grinding process in accordance with Clean Water Services standards. The contractor shall also be responsible for removing any grinding debris that enters curb inlets or catch basins. Payment for this work shall be incidental to the unit prices for grinding.

**10. Asphalt Concrete Removal (Excavation) and Preparation**

After all required pavement grinding is complete; areas of defective pavement shall be designated and marked by the Inspector for replacement. These areas shall be saw cut by the contractor in rectangular sections. Saw cuts shall be made 1.0 foot beyond the damaged pavement area. Slurry from saw cutting shall be contained, removed from the site, and shall not come in contact with any wetland, waterway, or catch basins. Cost of saw cutting shall be considered incidental to the "Asphalt Concrete Removal and Preparation" bid item. Excavation shall consist of the removal of all defective bituminous material and any underlying concrete pavement, if present.

Edge cracking or damage associated with removal shall be repaired at the contractor's expense. All materials removed by the contractor shall become the property of the contractor and must be removed from the job site and disposed of in a legal manner. No provisions for on-site storage of spoils will be made.

Prior to the street overlay, defective pavement shall be replaced with a minimum of 3" of Level 2, ½" dense graded asphalt or match the existing asphalt surface, whichever is greater. The tables list approximate depths for the AC Replacement areas suspected to be deeper than the typical 3 inches. There is no guarantee to the accuracy of these depths. Asphalt replacement shall be subject to the compaction requirements in Section 8.3.1. In areas where defective pavement has been replaced, the finished surface shall match the line, grade, and elevation of the existing surface. Where the width of the replacement section exceeds 4.5 feet, an approved strike off assembly shall be used and shall be capable of providing a uniform surface, free of defects or irregularities.

**11. 1" Skin Patch**

NE Griffin Oaks Street has areas of rocking concrete slabs that will need to be stabilized by placing a 1" skin patch over the marked areas as specified by the mapbook and Engineer. The areas will be tack coated and placed with Level 2, ½" dense graded asphalt. This work, as directed by the Engineer in the field, shall be constructed measured and paid by the ton under "1" Skin Patch" bid item, and shall include all materials including cleaning, tack coat, equipment, labor, and incidentals needed to complete the work.

**12. Base Preparation**

Base preparation will be required after grinding as directed by the Engineer/Inspector. Once the grinding is complete the contractor will re-grade and roll the area to compact any loose material and obtain a level surface prior to placing the asphalt concrete lift. Payment will be considered incidental and included in the appropriate bid item.

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**13. Surveying**

The City Engineering Division will provide all construction surveying required for this project. A minimum of **48 hours** notice shall be provided for any staking required. Contact Mike Filicky (503-681-6294), the City Surveyor for all construction survey issues.

**14. Subgrade Stabilization**

Over excavation is anticipated in the areas of SE Lois Street, NE Sunrise Lane, and SE 34<sup>th</sup> Avenue due to suspected failures of existing base and subgrade. NW John Olsen Avenue will require subgrade stabilization as part of the reconstruction, which will consist of grinding 3" of existing asphalt, 18" over-excavation of base, and then replacing with 14" - 1 ½" minus base rock, 2" - ¾" minus leveling course, and 5" asphalt concrete. Payment for grinding and asphalt concrete work will be paid under the line items for each. This work will require utility locates, which is the responsibility of the contractor. Telephone numbers for utility notification:

Oregon Utility Notification Center	1-800-332-2344 or 503-232-1987
City of Hillsboro	503-615-6509 (48 Hours notice)

**ATTENTION:** Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center.

Removal and disposal of excavated material shall include earth, organic material, concrete, rock, asphalt, metal, and pipe to the specified depth or as directed by the Engineer in the field. Excavation to subgrade must be made in a manner that will not damage the subgrade. No vehicles, including construction equipment shall be allowed to drive on the exposed subgrade. ***Base rock shall be installed as quickly as possible to facilitate the reopening of the roadway to traffic.*** Any damage to subgrade caused by the contractor shall be repaired at the contractor's expense. Subgrade testing will not be required.

All excavated material shall become the property of the contractor. The cost of hauling and dumping shall be considered incidental and included in the appropriate bid item. The contractor shall not stockpile on the roadway or within the public right-of-way at any time during construction. All material shall be disposed of off-site in a legal manner.

Backfill according to Oregon's Standard Specifications for Construction, Section 00331 with 1-1/2" minus base rock and ¾" minus leveling course conforming to Section 2630 at the specified compacted depth or as directed by the Engineer. The City will be responsible for all compaction testing. Costs for all other testing shall be considered incidental and included in the appropriate bid item.

This work, as directed by the Engineer in the field, shall be constructed measured and paid by the cubic yard measured in place according to Oregon's Standard Specifications for Construction, Section 00331 "Subgrade Stabilization" bid item, and shall include all materials including geotextile, backfill, equipment, labor, testing and incidentals needed to complete the work.

**15. Adjustment of Structures**

The contractor shall be responsible for adjusting all manholes, survey monument cases, water valve boxes, cleanouts, or other structures which will not otherwise be to finished grade upon completion of paving. Payment for the adjustment of these structures will be on a per unit basis. There are survey pins/spikes that will require the installation of a new survey monument case. Detail drawing attached. Payment for the new structures will be on a per unit basis.

For those structures owned and maintained by utility companies, the contractor will be responsible for coordinating the adjustment with the appropriate company. Adjustment of utility company structures will be considered incidental to the unit bid prices.



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The contractor shall be responsible for adjusting all catch basin grates which, after overlay, would result in a catch basin depth of over two (2) inches from street grade. The contractor may taper the edges of the asphalt overlay to all catch basins in circumstances where the catch basin depth will not exceed two (2) inches.

For sewer and storm system manholes, adjustment will be made using steel/iron adjustment rings. The cleanouts may be raised to grade physically or with steel/iron riser rings.

New style water valve boxes may be raised to grade physically or with steel/iron riser rings. Old style boxes that cannot be adjusted shall have a new style box inserted with the sides being in place. Those boxes damaged during the adjustment process will be replaced at the contractor's expense.

**16. Jointing**

Cold joints on all overlays shall be reduced to the shortest lengths possible. At the end of the working day, all work performed shall be completed with a transverse joint. *Location of the transverse joint must be approved by the Inspector.*

Temporary wedges shall be placed at these joints, which can be readily removed prior to continuation of work. The wedges shall be no less than 3.0 feet in width and shall be constructed with regard to the posted speed limits for the area. Appropriate signing indicating "Abrupt Edge" or "Bump" shall be maintained at the location of the wedge(s) until work resumes.

No longitudinal cold joints will be allowed to remain exposed for more than 3.5 hours without the adjacent panel being paved. Sealing of these joints must meet the satisfaction of the Inspector.

**17. Striping, Markings, and Reflectorization**

All striping including stop bars, crosswalks, and special markings, such as arrows and word stencils, shall be replaced at original locations unless directed by the Engineer. ***The contractor is responsible for re-establishing and pre-marking the centerline, lane lines, crosswalks, stop bars, legends and special markings of all areas overlaid except for NW John Olsen Avenue.*** The contractor shall contact Brad Eckland (503-615-6562), the City Traffic Supervisor or designee a minimum of **48 hours** for verifying layout prior to installing any material or for any questions on re-establishing striping and markings. The City of Hillsboro will only be responsible for layout of NW John Olsen Avenue to add bike lanes to this roadway.

All markings shall be reflective 3M 380 IES cold tape inlay or approved equal unless otherwise indicated on the bid sheet. Inlaid cold tape shall be placed and rolled at pavement surface temperatures between 120 to 150 degrees Fahrenheit with a finishing roller at a speed of 2 to 3 miles per hour. ***This project requires cold tape inlay to be placed at time of overlay. If the striping materials are not on site for the paving project, the paving will be delayed until the material is available. This delay will not be considered an act to allow the contractor to go over the required 72 hour window from time of grind to time of paving the roadway back.***

The contractor shall replace or install all yellow centerline, white lane lines, white fog line, and blue fire hydrant retroreflective raised pavement markers as indicated on the mapbooks and spreadsheets. The use of torches to place the markers is prohibited near the cold tape inlay.

If the street is ground out and the overlay cannot be placed by the end of the work day, temporary pavement markings in accordance with the MUTCD Part VI shall be placed by the contractor on lane lines, centerlines, stop bars or any other markings as directed by the Project Manager and maintained until the paving occurs. Temporary pavement markings, most often reflective tabs or reflective foil back tape, will be

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placed every one hundred (100) feet on the fog line, every forty (40) feet on the center line, and every twenty (20) feet on centerline and lane lines at intersections and in some cases double striping may be required. The reflective foil back tape shall be used to mark out stop bars, crosswalks, and directional arrows where needed. The temporary markings shall match the existing markings and are installed to help guide motorist and pedestrians until the permanent markings can be installed. Centerline markers shall be yellow and lane line markers shall be white. No project area shall be left for the day without re-establishing, at a minimum, temporary stop lines, centerline and lane lines. All temporary striping/markings shall be removed at the time of paving. Temporary pavement markings with placing and maintaining shall be considered incidental to the project.

The comments on the spreadsheets list the stop bars and crosswalks as informational and the quantity is under the 12" white line item.

**18. Traffic Signal Detector Loops**

Traffic signal detector loops at NW John Olsen Avenue will not be replaced under this contract. The City will replace these loops with video detection.

**19. Concrete Panel Replacement**

There is a 10ft by 14ft concrete panel at 18925 NW Tanasbourne Drive that will need to be removed and replaced. The concrete panel shall use a Class 4000 1 ½" paving concrete in accordance with Section 756 of the Oregon Standard Specifications for Construction (ODOT/APWA) for a 28-day cure or a high-early PCC mix may be submitted where the repair needs to be opened to traffic sooner than 28-days. Prior to starting construction, the contractor shall submit an ODOT approved mix design for City approval. Panel shall be poured to the thickness of the existing adjacent panels. As-built drawing shows panel thickness of 7 inches; however thickness shall be verified once panel is removed.

Saw cut the full depth along the perimeter of the collective slab to be replaced with a diamond bit saw. If reinforcement bars or dowels are encountered, saw cut to a depth just above the bars or dowels to salvage these elements. Saw cut full depth of slab 12 inches inward of the perimeter saw cut. Saw cut the slab into manageable pieces for removal. Carefully remove slab section without damaging the adjacent slabs or dowels, if the joints are doweled. A jack hammer is not allowed in breaking up the slab. Any slurry created by saw cutting shall be contained, removed from the site, and shall not come in contact with any wetland, waterway, or catch basins. All material removed shall become the property of the contractor and disposed of in a legal manner.

If the existing base is firm and does not appear to be contaminated with soil, lightly compact the surface of the existing base rock with a walk behind plate compactor before pouring the new slab. If the existing base is contaminated and soft, remove and replace with minimum 4" of ¾" crushed rock. Payment for base work shall be considered incidental and included in the appropriate bid item.

The jointing shall be tied and doweled per ODOT Standard Detail DET 1601, which is attached. Drill dowel holes into the existing slabs at 12 inches on center along the exposed joint faces using a slab supported dowel drilling rig to maintain proper alignment. Dowel layout shall avoid having dowels closer than 18" from any edge of the new slab. A hand held drill will not be allowed. Dowel holes should be 1/16" oversize in diameter and 9" to 9.5" deep for 18" long smooth dowels. Thoroughly clean debris from dowel holes using compressed air. Install smooth fully greased dowels with grout retention ring and pressure grout with quick-set epoxy grout complying with ASTM C 881 Types IV, or V, Grade 3, Classes B & C, suitable for anchoring smooth dowel bars in hardened concrete and on the QPL. Re-grease all exposed dowel ends as necessary before pouring the new slab. Payment for dowels shall be considered incidental and included in the appropriate bid item.

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Concrete shall be poured within 90 minutes of being mixed in a ready-mix truck. Concrete over 90 minutes of age will be rejected. Under no circumstances will placement of concrete be allowed when descending air temperatures drop below 40 degrees Fahrenheit or until ascending air temperatures rise above 35 degrees Fahrenheit. Unless otherwise permitted, concrete mixes shall be between 50 and 80 degrees Fahrenheit at the time of placement. When night time air temperatures are anticipated to drop below 35 degrees Fahrenheit, protect freshly poured with a suitable cover to protect from freezing. Protection of concrete from the weather shall be considered incidental to the bid item for installation of concrete street panels.

Pour new slab using the same joint lines and surface texture as in the original work. After the concrete has been given a preliminary finish, check the surface of the fresh concrete in the longitudinal and transverse direction with a 12 foot straightedge. Correct surface deviations that are more than allowed. The new joints shall be flushed with water, vacuumed to remove cement slurry and dried before installing the approved poured rubber-asphalt joint filler. The top of the joint filler shall be slightly, but not more than 1/8 inch below and paralleling finished pavement grade and cross section.

New concrete shall be sufficiently protected from traffic until the compressive strength reaches 95% of the specified 28-day strength. Extended lane closures will require special approval from the City Engineer. Steel plates must be properly secured to the roadway and have asphalt cold patch wedges on all sides. When using steel plates, the appropriate signage must be included in the traffic control plan. Steel plates must be removed within 24 hours of the concrete reaching the allowable compressive strength. While in use, steel plates shall be inspected daily by the contractor. Any missing cold patch shall be repaired daily, and all cold patch must be properly swept up and disposed at the time of plate removal. Protection of curing concrete, including steel plates, traffic control, cold patch materials, and any other materials and labor shall be considered incidental to the bid item for installation of concrete street panels.

Payment for removal and replacement of concrete street panel will be by the square foot in place, and includes all installation equipment, materials, labor, base preparation, finishing, curing compounds, dowels, protection of curing concrete, joint sealing and other additives and accelerants.

**20. Mailboxes**

There are five (5) mailboxes on the northeast corner of SE Oak Street/SE 33<sup>rd</sup> Avenue that will need to be relocated in order to meet the ADA ramp requirements at this corner. The contractor will relocate the individual mailboxes to one (1) group mailbox (also known as Centralized Box Unit, CBU). The CBU will have eight (8) incoming mailboxes, 2 parcel lockers and one locked outgoing mailbox as shown in the figure below.



The CBU will be placed within the public right-of-way, behind the sidewalk, and approximately 10 feet east of the existing mailboxes. The exact location of the CBU will be marked out by the City. The Contractor is responsible for calling for locates to determine if there are any conflicts with underground utilities. Attached are the specifications for a CBU. It will be acceptable to install 6" concrete pad over 2" of ¾" minus crushed rock. The concrete pad can be 4' x 3' instead of 4' x 4' as stated in the specifications. Anchor bolts may be used in lieu of the wet J-bolt method of installation (please specify in bid). Existing mailboxes will remain in place until the Post Office distributes the keys and notifies that the CBU is in service.

Replacing of any adjacent concrete panel if damaged by the installation will be considered incidental to the work and will not be paid as a separate pay item. The removal and disposal of the existing mailboxes will be coordinated with the property owners and considered incidental. If the property owner does not want

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the removed mailbox, they shall become the property of the contractor and disposed of in a legal manner. Payment will be based on the unit price per each installed CBU and shall include all labor, materials, landscape restoration, aggregate and concrete base needed to complete the work.

**21. Sidewalk Ramps w/Truncated Domes, Concrete Sidewalk, PCC Driveways, and Curb/Gutter**

Sidewalk ramps will be removed and replaced with a new ramp to meet ADA standards, including the truncated dome standard at the locations indicated in the following table or as directed by the Engineer. Refer to the attached ODOT drawings for guidance on ADA requirements. The truncated domes shall be a wet set product, black in color and installed per manufacturer's instructions.

The ramp areas to be replaced with a new ramp and truncated dome panel shall be removed to the nearest joint or shall be saw cut and may include curb/gutter. Some areas of sidewalk adjacent to the ramp removal/replacement will need to be removed (to the nearest joint or shall be saw cut) and replaced to better match existing sidewalk in eliminating any potential trip hazard. Any slurry created by saw cutting shall be contained, removed from the site, and shall not come in contact with any wetland, waterway, or catch basins. All material removed shall become the property of the contractor and disposed of in a legal manner.

The ramps at SE Lois Street and NW John Olsen Avenue abut Washington County roadways (SW Cornelius Pass Road and NW Evergreen Parkway). The contractor shall coordinate traffic control and obtain any necessary no-cost right-of-way permits through Washington County by contacting Matthew Aase at 503-846-7628 or [matthew\\_aase@co.washington.or.us](mailto:matthew_aase@co.washington.or.us). The County's "General Construction/Signs" application for the right-of-way permit can be found at <http://www.co.washington.or.us/LUT/Divisions/Operations/Permits/row-permits.cfm>.

Removal and replacement of any curb/gutter as part of the ramp replacement shall be considered incidental and included in the appropriate bid item. Some ramps will require a landscape retaining curb at the property line. The installation of this retaining curb is considered part of the ramp replacement and shall be considered incidental and included in the appropriate bid item. Landscaping shall be restored to an as good or better condition as determined by the Engineer.

Payment for retrofit and replacement of ramps with truncated domes shall be on a per unit basis with saw cutting, removal, curb/gutter and landscape retaining curb/restoration being considered incidental. Payment for concrete sidewalk replacement shall be on a square foot basis including labor, saw cutting, removal, landscape restoration, materials, and base rock.

PCC residential driveways will be removed and replaced according to City of Hillsboro standards (attached detail) at the locations indicated in the mapbook and spreadsheets on NE Grant Street, or as directed by the Engineer. Standard details are attached at the end of these specifications.

The PCC driveways shall be removed to the nearest joint or shall be saw cut. Any slurry created by saw cutting shall be contained, removed from the site, and shall not come in contact with any wetland, waterway, or catch basins. All material removed shall become the property of the contractor and disposed of in a legal manner. Construct driveways 18 feet and wider in two separate pours to maintain access to the property. ***Driveways shall be opened to light vehicle traffic within 5 days of placing concrete. This may require a high early concrete mix design.*** The sidewalk section of all driveways shall comply with current ADA regulations.

The curb in front of the driveways is included in the square footage quantity of the driveway removal and replacement item. Payment for removal and replacement of PCC driveways shall be on a square foot basis with saw cutting and removal being considered incidental.

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TEMP	SEC ID	STREET LOCATION	CORNER LOCATION	REPLACE RAMP	REPLACE SIDEWALK (SQFT)	Notes
B2	L919	NE Grant St @ Delsey	NE & NW	2	40	NE corner has WTR valve & stop sign. NW corner has CB in ramp area.
B2	L919	NE Grant St @ Birchwood	NW	1	----	New Ramp
B2	M922	NE Grant St @ Turner	NW & SW	2	144	Both New Ramps
B3	C1678A	SE 33 <sup>rd</sup> Ave @ Walnut	NE	1	50	
B3	1681	SE 34 <sup>th</sup> Ct @ Oak	NE & NW	2	100	CBs in ramp areas
B3	C1761	SE 35 <sup>th</sup> Ave @ Walnut	NW & SW	2	100	NW corner has CB near ramp area
B3	D1724B	SE 35 <sup>th</sup> Ave @ Oak	SE & SW	2	100	WV in SE corner
B3	1685	SE 35 <sup>th</sup> Ct @ Oak	NE & NW	2	50	CBs in ramp areas
B3	K1682	SE Oak St @ 33 <sup>rd</sup>	NE & SE	2	165	NE corner has CB and vegetation. NE corner has mailboxes, which will be relocated to a single pedestal unit per Spec 20
B3	M1687	SE Oak St @ 36 <sup>th</sup>	NW & SW	2	200	CBs in ramp areas
B4	D3391	SE Lois St @ Century	NE & NW	2	----	
B4	D3391	SE Lois St @ 65 <sup>th</sup>	SW & SW	2	50	Tree at SE corner
B4	E3390	SE Lois St @ 66 <sup>th</sup>	SE & SW	2	150	
B4	F3389	SE Lois St @ 67 <sup>th</sup>	NE & NW	2	125	
B4	G3388	SE Lois St @ 70 <sup>th</sup>	SE	1	----	
B4	H3387	SE Lois St @ 71 <sup>st</sup>	NE & NW	2	300	NW corner has brass survey screw
B4	I3386B	SE Lois St @ 74 <sup>th</sup>	NE & NW	2	50	
B4	J3385	SE Lois St @ Cornelius Pass	NW & SW	2	150	<b>14 LF curb/gutter remove and replace on NW corner.</b>
B4	I3488	SE Frances St @ 67 <sup>th</sup>	NE & NW	2	120	
B4	I3488	SE Frances St @ 70 <sup>th</sup>	NE & NW	2	----	
B4	L3291A	SE Frances St @ 73 <sup>rd</sup>	SE & SW	2	120	
B4	N3493	SE Frances St @ 74 <sup>th</sup>	All	4	120	
C3	H429	NE Sunrise Ln @ 21 <sup>st</sup>	NE/NW/SW	3	90	NE & NW corners have CBs near ramp area.
C3	H429	NE Sunrise Ln @ 17 <sup>th</sup>	NE & SE	2	50	NE corner has Verizon vault and stop sign (will need to shift ramp)
C3	I3152	SE Sunrise Ln @ 25 <sup>th</sup>	NW & SW	2	75	
C4	D223B	NW John Olsen Ave @ Evergreen	SE & SW	4	300	
<b>TOTALS</b>				<b>54</b>	<b>2649</b>	

Concrete curb and gutter will be removed and replaced according to City of Hillsboro standards at the locations indicated in the table and mapbook/spreadsheets on SE Lois Street and SE Frances Street, or as directed by the Engineer. Standard details are attached at the end of these specifications. The concrete curb and gutter shall be removed to the nearest joint or shall be saw cut. Any slurry created by saw cutting shall be contained, removed from the site, and shall not come in contact with any wetland, waterway, or catch basins. All material removed shall become the property of the contractor and disposed of in a legal

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manner. Payment for removal and replacement of concrete curb and gutter in these specified locations shall be on a linear foot basis with saw cutting and removal being considered incidental.

*All handicap ramps, sidewalks, and PCC driveway work shall be completed at least 5 days prior to the grinding for overlays. If the contractor damages any of the concrete work during the overlay, they will be responsible for repairing at the contractor's expense.*

**22. Extra Work**

A bid item for extra work has been included within this contract. Should unanticipated work for which there are no bid unit prices be required for the completion of this project, payment will be made using this bid item. This bid item has been reserved with a set aside amount of \$25,000 for this work. All work and materials must be approved in writing by the Engineer prior to commencement of work. The set aside amount is an estimate only; if the actual total cost for this item is less than or exceeds the set aside amount, the contractor will continue to be compensated on a time and materials basis.

**23. Sanitary Facilities**

The contractor shall provide proper on-site sanitary facilities for its employees.

**24. Asphalt Cement Material Price Escalation/De-escalation**

An asphalt cement escalation/de-escalation clause will be in effect during the life of the contract. The City reserves all of its rights under the contract, including, but not limited to, its rights for suspension of the work and termination of the contract under the City of Hillsboro Standard Terms & Conditions for Public Improvement Contracts Part VI. Section J, and this escalation/de-escalation provision shall not limit those rights.

**a. Monthly Asphalt Cement Material Price (MACMP)** – The Monthly Asphalt Cement Material Price (MACMP) will be established by the City each month. For information regarding the calculation of the MACMP, and for the actual MACMP, go to the ODOT website at: [http://www.oregon.gov/ODOT/HWY/ESTIMATING/asphalt\\_fuel.shtml](http://www.oregon.gov/ODOT/HWY/ESTIMATING/asphalt_fuel.shtml). If the City selected index ceases to be available for any reason, the City in its discretion will select and begin using a substitute price source or index to establish the MACMP each month. The MACMP will apply to all asphalt cement including but not limited to paving grade, polymer modified, and emulsified asphalts, and recycling agents. The City does not guarantee that asphalt cement will be available at the MACMP.

**b. Base Asphalt Cement Material Price (Base)** – The Base asphalt cement material price for this Project is the MACMP published on the ODOT website for the month immediately preceding the bid opening date.

**c. Monthly Asphalt Cement Adjustment Factor** – The Monthly Asphalt Cement Adjustment Factor will be determined each month as follows:

- If the MACMP is within  $\pm 5\%$  of the Base, there will be no adjustment.
- If the MACMP is more than 105% of the Base, then:  
Adjustment Factor =  $(\text{MACMP}) - (1.05 \times \text{Base})$
- If the MACMP is less than 95% of the Base, then:  
Adjustment Factor =  $\text{MACMP} - (0.95 \times \text{Base})$

**d. Asphalt Cement Price Adjustment** – A price adjustment will be made for the items containing asphalt cement listed below. The price adjustment as calculated in (c) above will use the MACMP for the month the asphalt is incorporated into the Project. The price adjustment will be applied to the quantity of asphalt cement calculated from quality control testing performed according to Oregon's

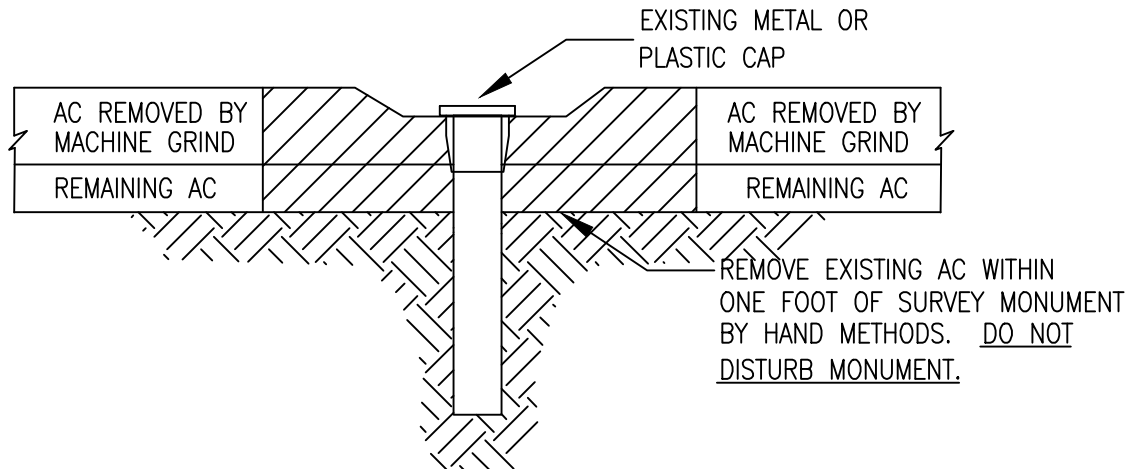
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Standard Specifications for Construction, Section 00745 and will be adjusted to exclude the asphalt cement contained in RAP (recycled asphalt pavement). The percentage of asphalt cement contained in RAP shown in the JMF (job mix formula) will be used for the adjustment.

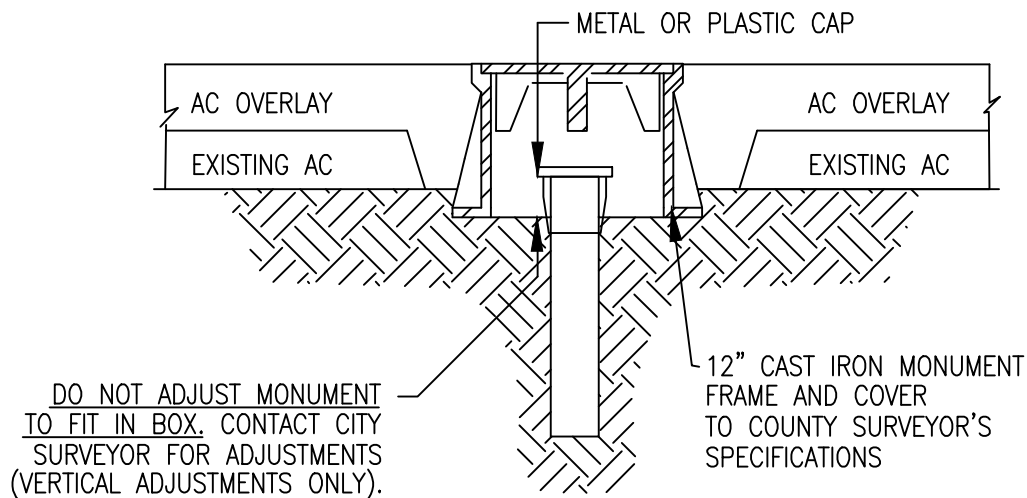
The Pay Items for which price adjustments will be made under these Special Provisions are:

- Asphalt Concrete Replacement
- 1" Skin Patch – Level 2, ½" Dense Graded Asphalt Concrete
- 2.5" Level 2, ½" Dense Graded Asphalt Concrete
- 2" Level 3, ½" Dense Graded Asphalt Concrete
- 3" Level 3, ½" Dense Graded Asphalt Concrete

## EXISTING SURVEY MONUMENT



## MONUMENT BOX INSTALLATION



PHONE: 503.681.6146 | FAX: 503.681.6245

150 E MAIN ST | 4TH FLOOR | HILLSBORO, OR 97123-4089

### CENTERLINE SURVEY MONUMENT BOX RETROFIT FOR OVERLAYS

FILE NAME: PW- SURVEY MON BOX.DWG

#### VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL  
DRAWING



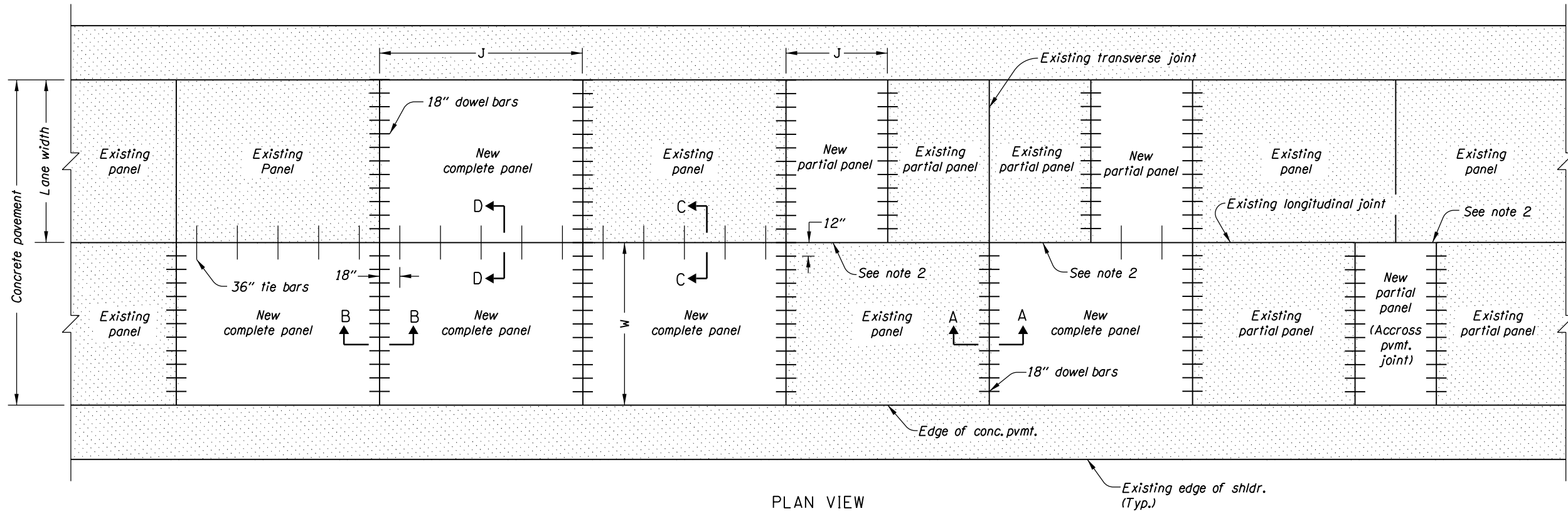
IF NOT ONE INCH ON THIS SHEET,  
ADJUST SCALES ACCORDINGLY

SHEET NO.

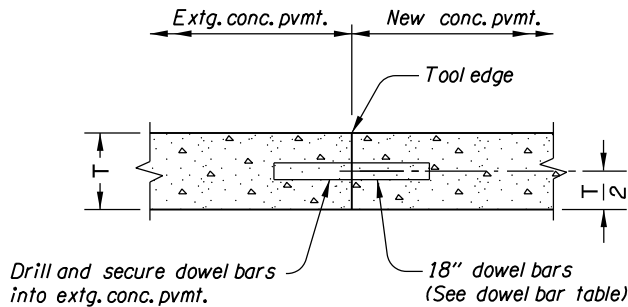
PROJECT NO.

PLOT DATE: 4/26/2013 2:33 PM

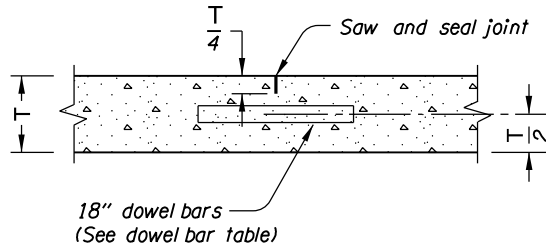




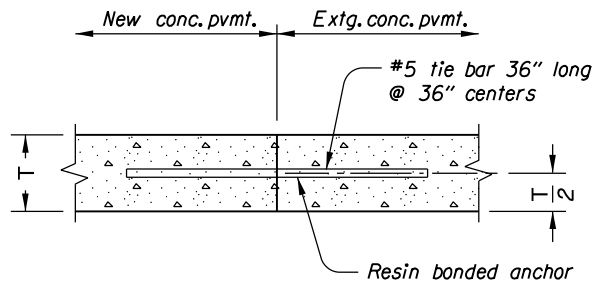
PLAN VIEW



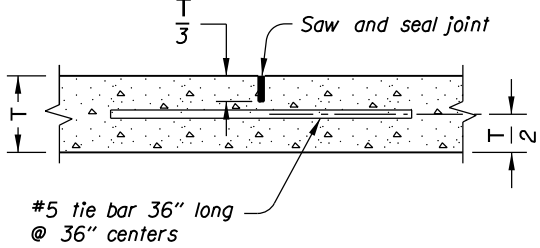
SECTION A-A  
CONSTRUCTION JOINT



SECTION B-B  
CONTRACTION JOINT



SECTION C-C  
CONTACT JOINT



SECTION D-D  
WEAKENED PLANE JOINT

TRANSVERSE JOINT

LONGITUDINAL JOINT

TABLE NO. 1 PLAIN DOWELLED CONCRETE PAVEMENT REPAIR DETAILS

APPROX. STA. TO STA.	DIR	LANE	REPAIR WIDTH	REPAIR LENGTH (J)	REPAIR AREA	LANE WIDTH W (ft)	PVMT. THKN. T (in)	EXISTING BASE TYPE	ADJACENT LANE SURFACE

GENERAL NOTES FOR ALL DETAILS:

1. Install tie bars along longitudinal joints between full panel replacement and existing concrete pavement. Tie bars are not installed between concrete pavement and HMAC pavement.
2. Place a bond breaker along the longitudinal joint between partial panel replacement and existing panel.
3. Place new dowel bars between any existing dowel bars.
4. Center tie bars and dowel bars on joint.

DOWEL BAR TABLE

Pvmt. Thkn. T	Dowel Dia.	C/C Dowel Spacing
6" - 8"	1"	12"
8 1/2" - 10"	1 1/4"	12"
10 1/2" & up	1 1/2"	12"

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.



OREGON DEPARTMENT OF TRANSPORTATION  
TECHNICAL SERVICES  
DETAILS

PLAIN CONCRETE PAVEMENT,  
DOWELLED REPAIR

DETAIL NO.  
DET1601

## **CENTRALIZED BOX UNIT (CBU) ANCHORING METHODS - CONCRETE PAD SPECIFICATIONS -**

The attached documents are the only USPS approved specifications for pouring concrete pads for the anchoring of CBUs.

**CONCRETE SPECIFICATIONS FOR SINGLE UNIT CONCRETE PAD**

**CONCRETE SPECIFICATIONS FOR MULTIPLE UNIT CONCRETE PAD**

**ANCHORING METHODS FOR CENTRALIZED BOX UNITS (CBU)**

CBUs must be installed approximately one week prior to customer occupancy.

CBUs must not be installed until the local USPS representative has conducted an on-site visit to ensure compliance with the official specifications. **Contact the local USPS representative to have the pads inspected prior to pouring the concrete.**

CBUs must be installed facing the correct direction. CBU installed on concrete pads poured behind the sidewalk should face the sidewalk. CBU installed on concrete pads located in landscape strips between the curb and the sidewalk should face the sidewalk. Do not install CBU facing the curb or street—causing the carrier and the customer to stand in the street to deliver or retrieve mail.

CBUs should not be installed so close to an intersection or traffic lane that they block visibility for approaching traffic or could be struck by a passing motor vehicle.

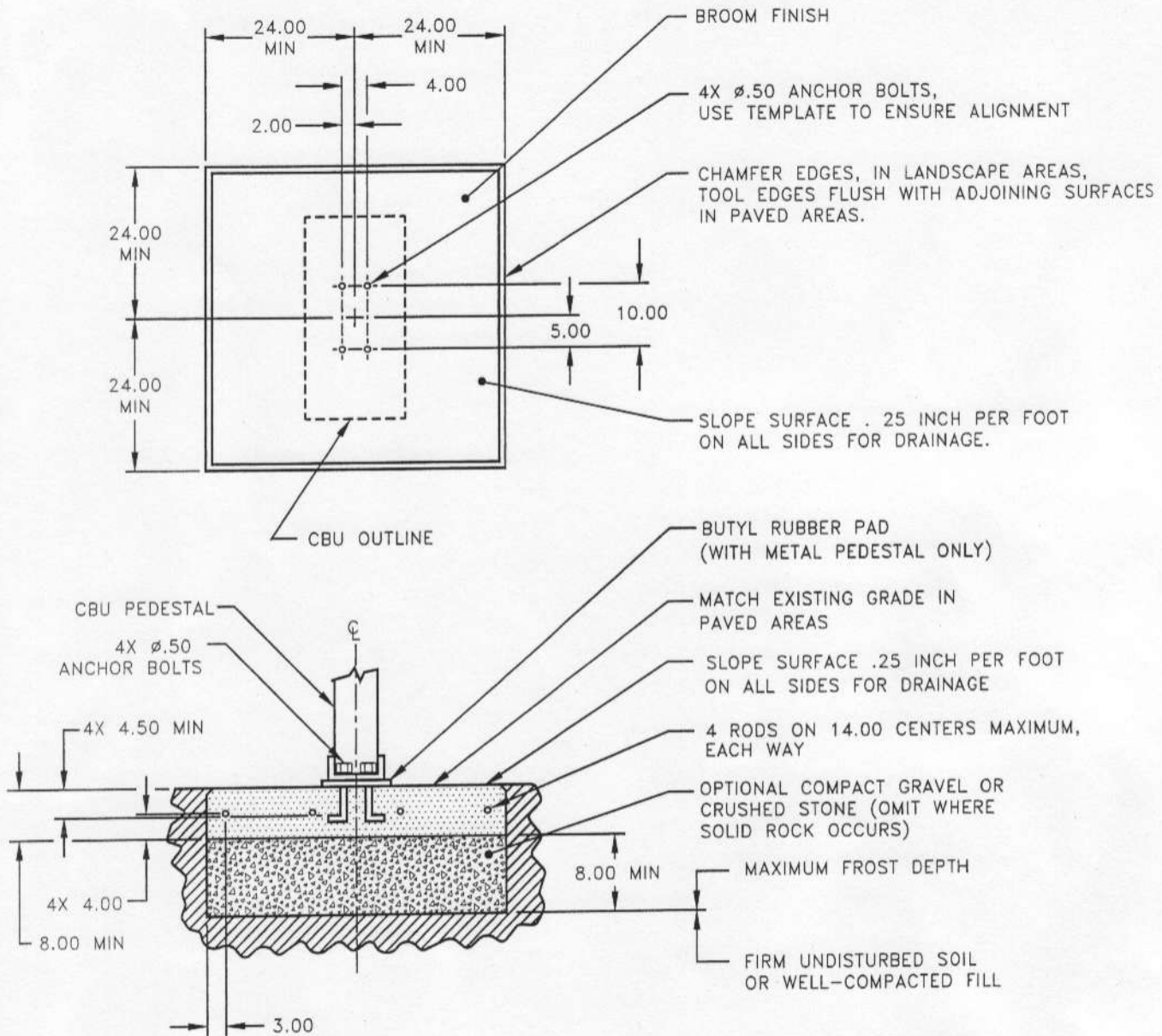
CBUs should not be located on dead-end streets where there is no safe turnaround for Postal delivery vehicles.

Notify your local USPS representative immediately upon completion of the CBU installation so that we can install the arrow lock and secure the unit.

All CBU compartment keys will be distributed by the builder/developer at the time of move in. The local USPS representative needs to be contacted by the builder/developer for the box address assignments. Each homeowner should receive a copy of the Mode of Delivery Agreement at the time of move in.

Any deviations from the USPS designated location of the CBU must not occur without first receiving authorization from the local USPS representative.

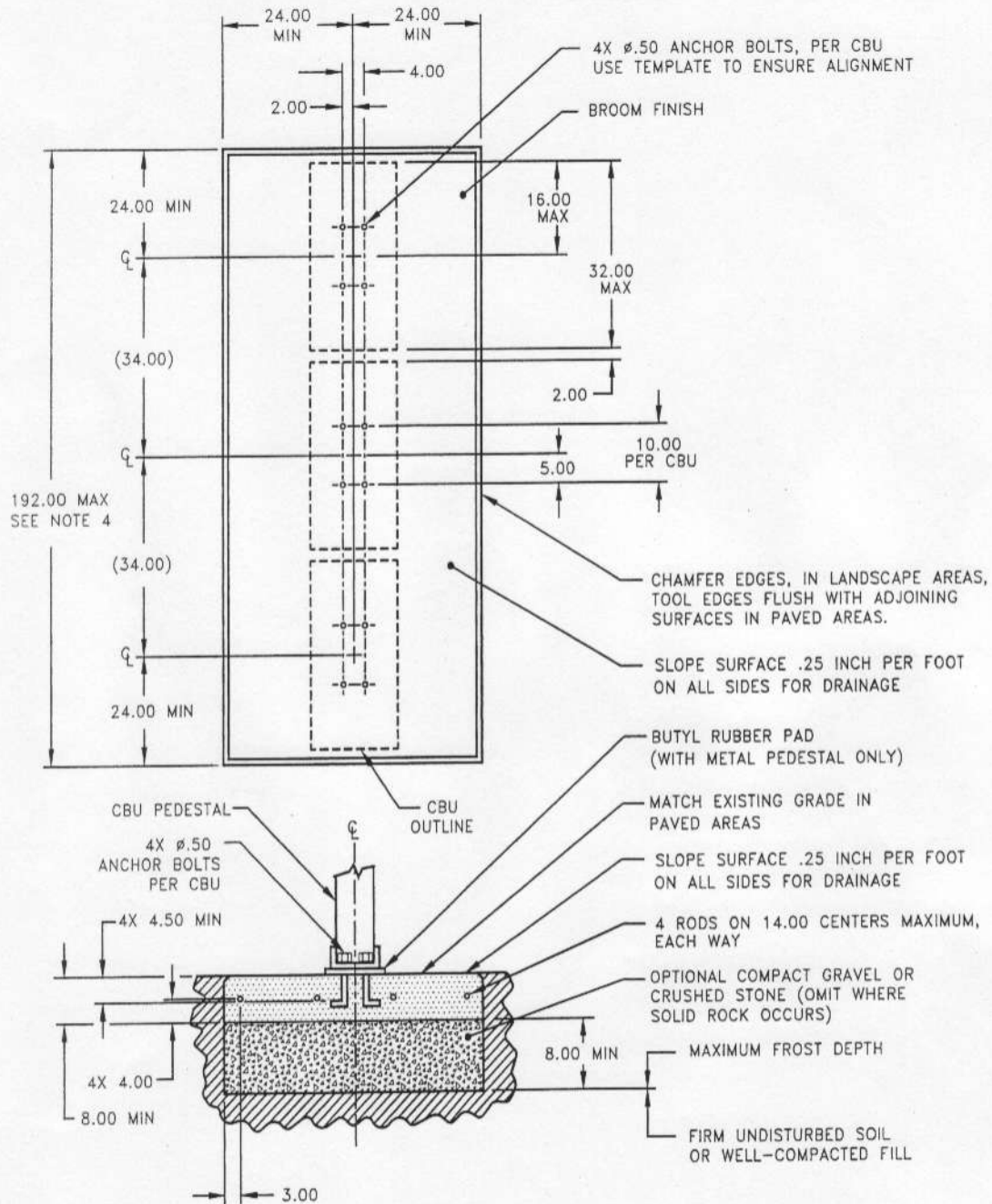
## USPS APPROVED SPECIFICATIONS – CONCRETE PAD (SINGLE UNIT)



### NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN - 6% MAX AIR ENTRAINMENT AND BE PLACED WITH A 3.50 - 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE B8M, TYPE 316 STAINLESS STEEL.

## USPS APPROVED SPECIFICATIONS – CONCRETE PAD (MULTIPLE UNIT)



### NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN – 6% MAX AIR ENTRAINMENT AND BE PLACED WITH A 3.50 – 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE B8M, TYPE 316 STAINLESS STEEL.
4. A 3 CBU CONFIGURATION IS DEPICTED. A 2 OR 4 CBU CONFIGURATION MAY BE USED AS LONG AS THEY ARE ARRANGED IN GROUPS SUCH THAT THE OVERALL DIMENSION OF THE CONCRETE BASE DOES NOT EXCEED 192 INCHES.

## CENTRALIZED BOX UNIT (CBU) ANCHORING METHODS

CBUs must be level and mounted firmly in concrete, using one of the following methods.

1. The J-bolt method is the preferred method of installation of CBUs on concrete pads; however, the J-bolt pattern must be accurate with the CBU pedestal plate. When using J-bolts, in order to prevent any damage or accidents that could result from the exposed bolts, consideration should be given as to the time lapse between pouring the concrete and the actual installation. Expansion anchors must be installed in accordance with the manufacturer's instructions.
2. The use of anchor bolts for the installation of CBUs on concrete pads is also acceptable as long as the methods described below are followed.
  - a. Hilti Kwik bolt II, 1/2" diameter X 5-1/2" overall length  
Catalog Number: 000-453-696, KB II 12-512  
Stainless Steel Catalog Number: 000-454-744  
Minimum embedment in concrete must be no less than 3-1/2"
  - b. ITW Ramset Redhead Trublots, galvanized, 1/2" diameter X 7" overall length
  - c. Rawl Stud, 1/2" diameter X 5 1/2" overall length, galvanized.  
Catalog Number: 7324  
Minimum embedment in concrete must be no less than 4"



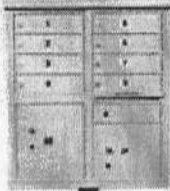
## CENTRALIZED BOX UNIT (CBU) CONCRETE PAD REQUIREMENTS

- ALL FREE STANDING PADS MUST BE 8" THICK -

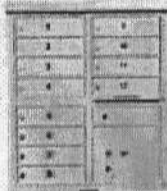
1 BOX	SINGLE PAD	4' X 4'
2 BOXES	DOUBLE PAD	4' X 7'
3 BOXES	TRIPLE PAD	4' X 10'
4 BOXES	QUAD PAD	4' X 13'

WHEN PLACING A PARCEL LOCKER AT ANY CBU LOCATION,  
INCREASE THE PAD SIZE BY AN ADDITIONAL 4' X 4'

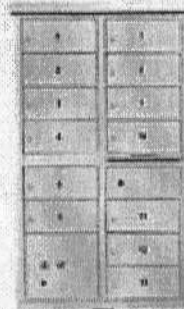
### CENTRALIZED BOX UNITS FOR OUTDOOR CENTRALIZED MAIL DELIVERY



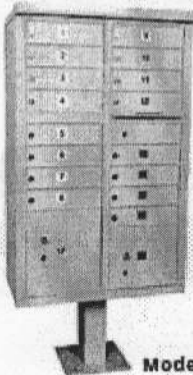
FCBU Type I  
8-box Unit



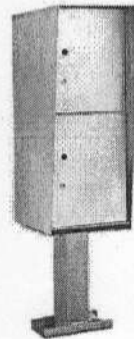
FCBU Type II  
12-box Unit



FCBU Type IV  
13-box Unit

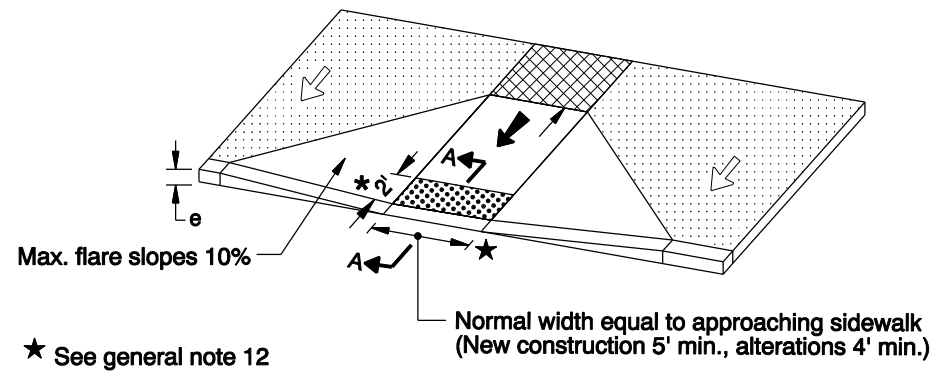


Model 1570 (F) CBU  
16-box Unit

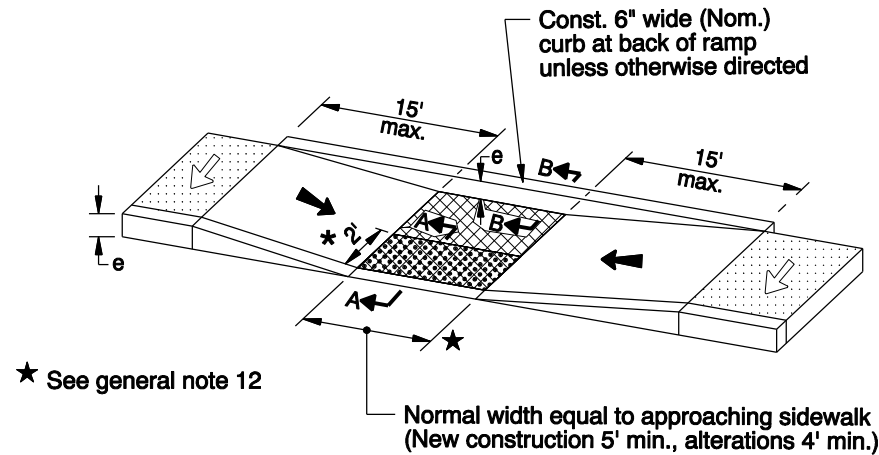


Outdoor Parcel Locker

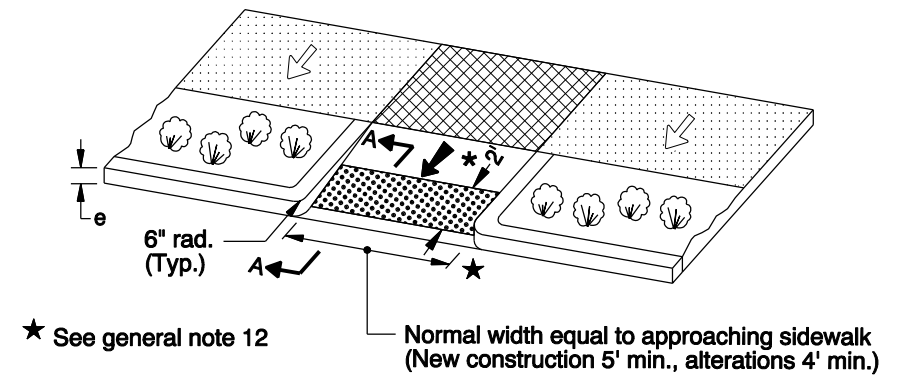
29-JAN-2013  
rd755.dgn



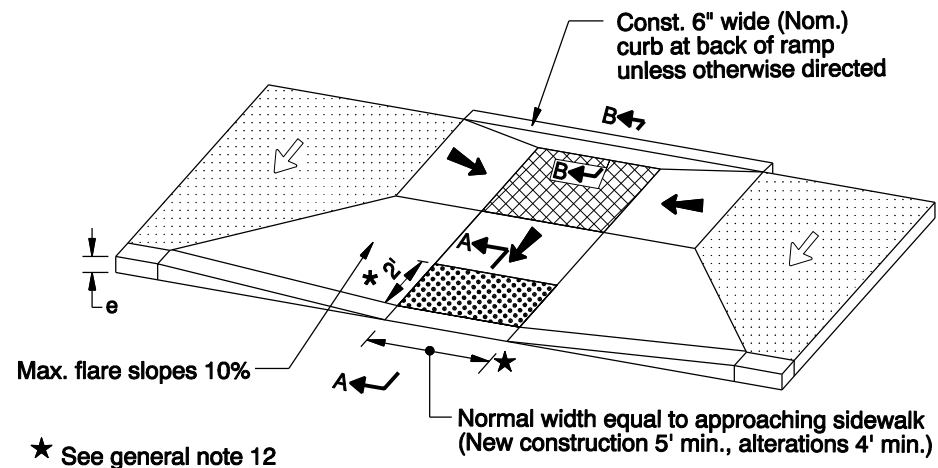
**PERPENDICULAR SIDEWALK RAMP DETAIL**  
(Use "Parallel Sidewalk Ramp Detail" or "Combination Sidewalk Ramp Detail" when reqd. turning space cannot be obtained)



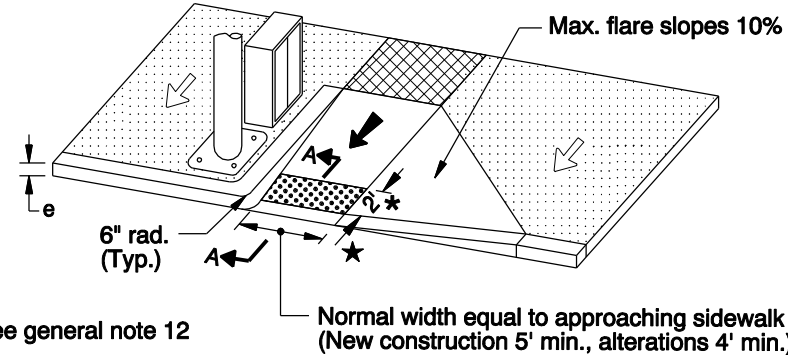
**PARALLEL SIDEWALK RAMP DETAIL**



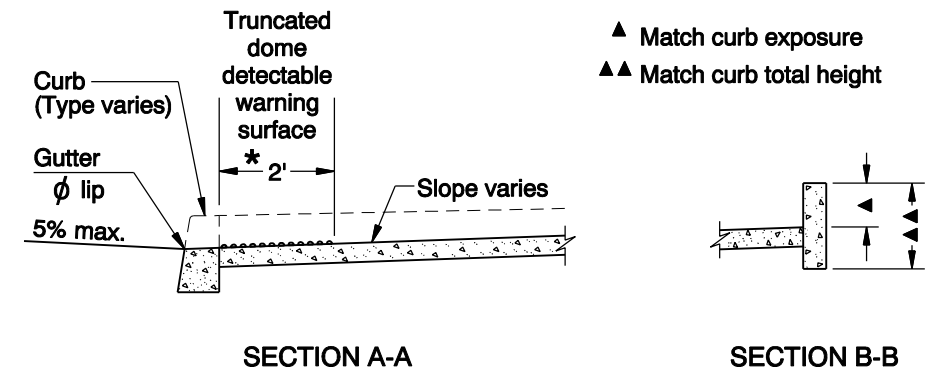
**PERPENDICULAR SIDEWALK RAMP DETAIL  
(THROUGH BUFFER STRIP)**



**COMBINATION SIDEWALK RAMP DETAIL**



**PERPENDICULAR SIDEWALK RAMP DETAIL (WITH SINGLE FLARE)**  
(Use "Parallel Sidewalk Ramp Detail" or "Combination Sidewalk Ramp Detail" when reqd. turning space cannot be obtained)



- ← Slope 2% max.
- Slope 8.33% (1":12") max. (See general note 10)
- Truncated dome detectable warning surface
- Turning space (Min. level area 48" x 48") For the purposes of this application, a 2% maximum slope (For drainage) is considered level
- \* 2' See general note 5

**GENERAL NOTES FOR ALL DETAILS:**

- Sidewalk ramp details are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc.
- Tooled joints are required at all sidewalk ramp slope break lines.
- Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
- Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
- Side flares that are not part of the path of travel may be any slope.
- Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.

- For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
- Ramps for paths intersecting a roadway should be full width of path, excluding flares. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 8' wide.
- In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".
- For sidewalk ramp placement options, see Std. Drgs. RD756 & RD757.
- Check the gutter flow depth at ramp locations to assure that the design flood does not overtop the back of sidewalk at ramp. If overtopping occurs place an inlet at upstream side of ramp or perform other approved design mitigation.
- Only use details allowed by jurisdiction.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 07-JAN-2013

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

**SIDEWALK RAMP DETAILS**

2008

DATE	REVISION DESCRIPTION
06-2008	REVISED DETAILS & NOTES
12-2008	REVISED NOTE
07-2010	REVISED NOTE
01-2013	REVISED NOTES

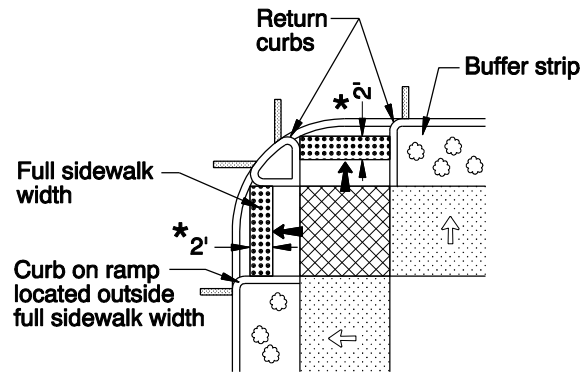
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

**Effective Date: June 1, 2013 - November 30, 2013**

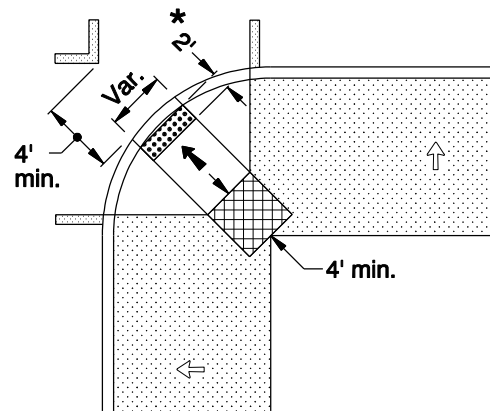
**RD755**

RD755

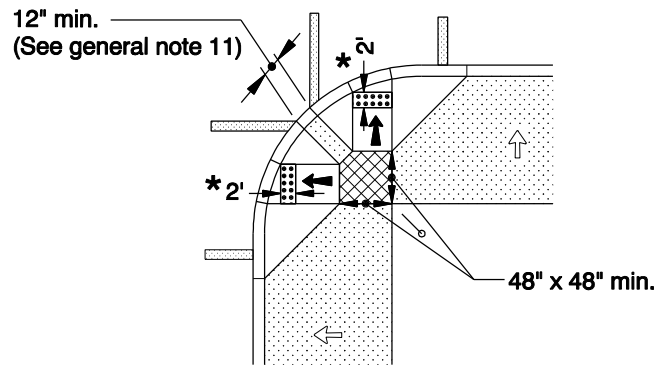
rd756.dgn 29-JAN-2013



OPTION A  
PERPENDICULAR RAMP WITH LANDSCAPED BUFFER STRIP

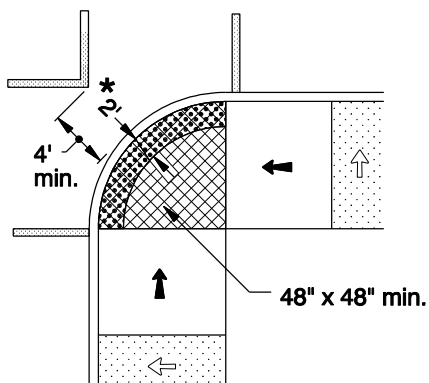


OPTION D  
DIAGONAL RAMP (FOR WIDE SIDEWALKS)  
Use in alterations only and when site constraints prohibit installing two ramps

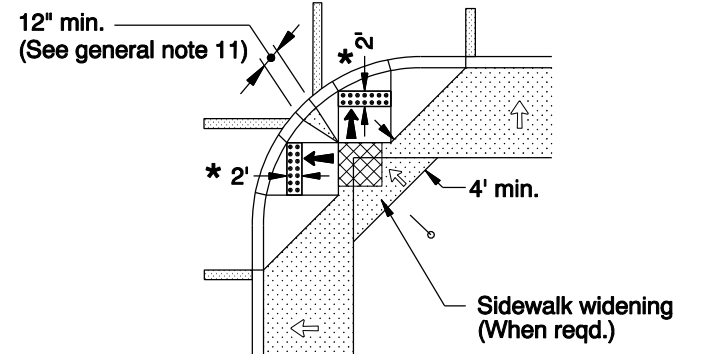


OPTION B  
PERPENDICULAR RAMP (FOR WIDE SIDEWALKS)

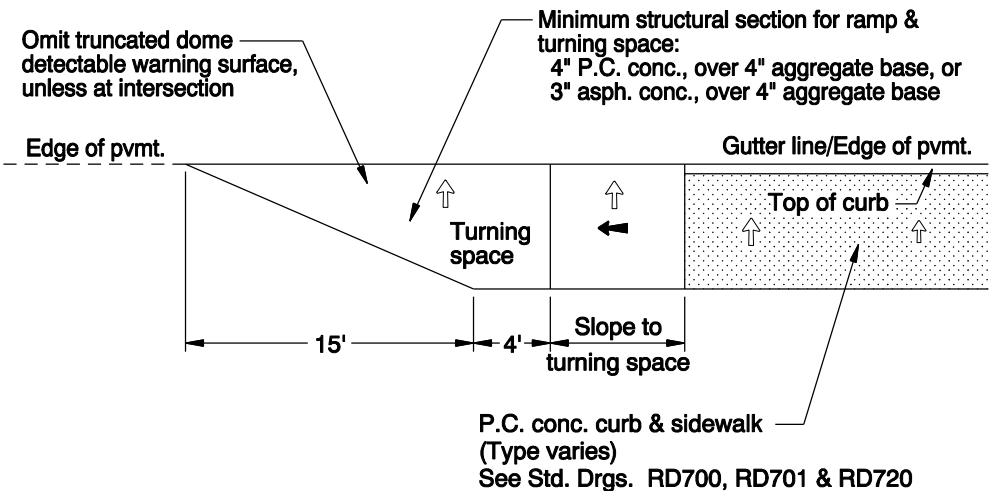
- Marked or intended crossing location
- Slope 2% max.
- Slope 8.33% (1":12") max. (Ramp length 15' max.) (See general note 10)
- Truncated dome detectable warning surface
- Turning space (Minimum level area 48" x 48") For the purposes of this application, a 2% maximum slope (For drainage) is considered level
- See general note 5



OPTION E  
DIAGONAL-PARALLEL RAMP (FOR SIDEWALK WIDTHS ≥ RADIUS)  
Use in alterations only and when site constraints prohibit installing two ramps



OPTION C  
PERPENDICULAR RAMP (FOR NARROW SIDEWALKS)



OPTION F  
SIDEWALK RAMP AND TURNING SPACE (FOR ENDS OF SIDEWALKS)

GENERAL NOTES FOR ALL DETAILS:

- Sidewalk ramp details are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc. See Std. Drg. RD755 for sidewalk ramp details.
- Tooled joints are required at all sidewalk ramp slope break lines.
- Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
- Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
- Side flares that are not part of the path of travel may be any slope. Check the gutter flow depth to assure that the design flood does not overtop the back of sidewalk. If overtopping occurs place an inlet at upstream side or perform other approved design mitigation.

- Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
- For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
- Ramps for paths intersecting a roadway should be full width of path, excluding flares. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 8' wide.
- In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".
- When 2 curb ramps are immediately adjacent as in Options B & C, the curb exposure (e) between the adjacent side flares may range between 3" and full design exposure.
- Only use options allowed by jurisdiction.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 07-JAN-2013

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

SIDEWALK RAMP PLACEMENT OPTIONS  
CURB RADII ≤ 15'

2008

DATE	REVISION DESCRIPTION
06-2008	REVISED & ADDED NOTES
07-2010	REVISED DETAILS & NOTES
01-2013	REVISED NOTES






Effective Date: June 1, 2013 - November 30, 2013

RD756

RD756





- |   |  |   |   |
|---|--|---|---|
|  | Marked or intended crossing location   | * 2'  | See general note 5  |
|  | Slope 2% max.  |  | Truncated dome detectable warning surface   |
|  | Slope 8.33% (1":12") max.<br>(Ramp length 15' max.)<br>(See general note 10) |  | Turning space (Min. level area 48" x 48")<br>For the purposes of this application,<br>a 2% maximum slope (For drainage) is considered level |

**GENERAL NOTES FOR ALL DETAILS:**

1. Sidewalk ramp details are based on United States Access Board Standards.
2. See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc. See Std. Drg. RD755 for sidewalk ramp details.
3. Tooled joints are required at all sidewalk ramp slope break lines.
4. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
5. Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
6. Side flares that are not part of the path of travel may be any slope. Check the gutter flow depth to assure that the design flood does not overtop the back of sidewalk. If overtopping occurs place an inlet at upstream side or perform other approved design mitigation.

7. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
8. For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
9. Ramps for paths intersecting a roadway should be full width of path, excluding flares. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 8' wide.
10. In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".
11. When 2 curb ramps are immediately adjacent as in Option G, the curb exposure (e) between the adjacent side flares may range between 3" and full design exposure.
12. Only use options allowed by jurisdiction.

CALC. BOOK NO.           N/A

BASELINE REPORT DATE 07-JAN-2013

**NOTE:** All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

**SIDEWALK RAMP PLACEMENT OPTIONS**  
**CURB RADII > 15'**

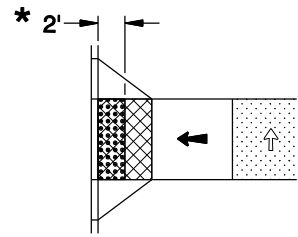
2008

DATE	REVISION DESCRIPTION
06-2009	REVISED DETAILS & NOTES
07-2010	REVISED DETAILS & NOTES
01-2013	REVISED NOTE

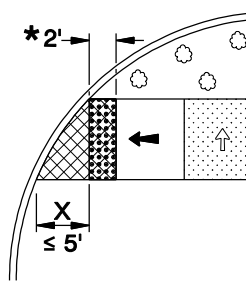
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

rd759.dgn 29-JAN-2013

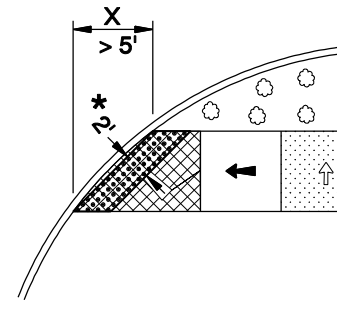
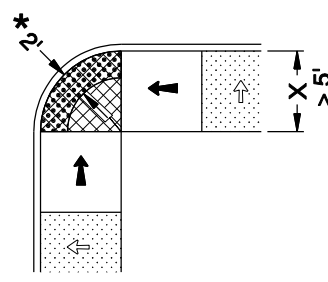
RD759



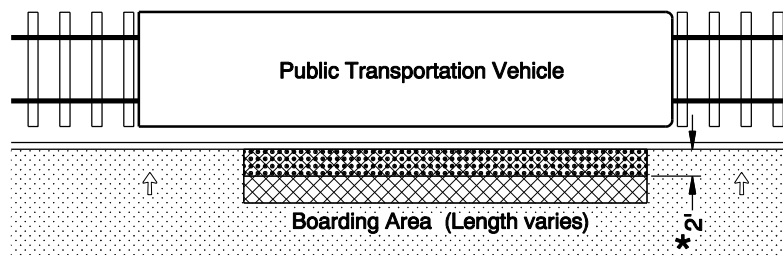
When distance "X" is less than 5', truncated dome detectable warning surface shall be placed perpendicular to the path of travel.



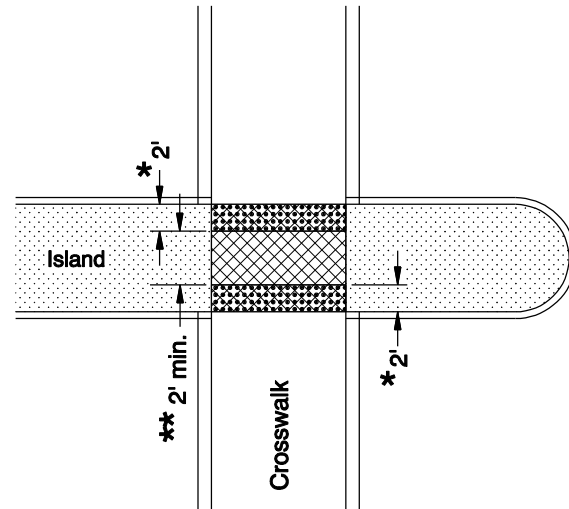
When distance "X" is greater than 5', truncated dome detectable warning surface shall be placed parallel to the bottom of curb ramp.



### PLACEMENT ON SIDEWALK RAMP

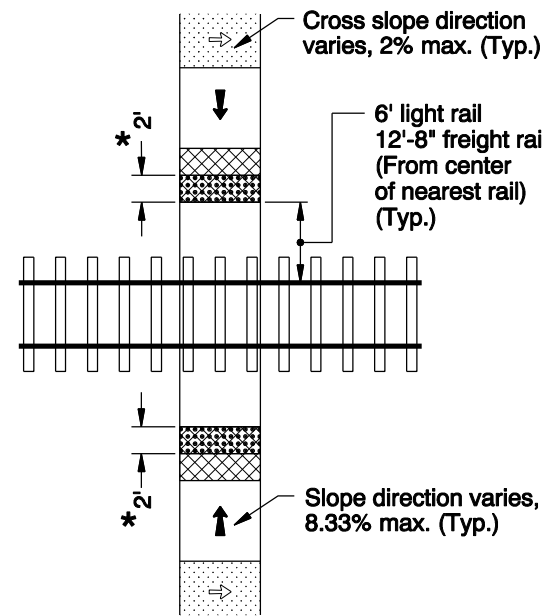


### PLACEMENT ON PUBLIC TRANSPORTATION PLATFORM



\*\* Omit truncated dome detectable warning surface if less than 2'

### PLACEMENT ON CROSSING ISLAND



### PLACEMENT AT RAIL CROSSING

← Slope 2% max.

← Slope 8.33% (1":12") max.  
(Ramp length 15' max.)  
(See general note 8)



Truncated dome detectable warning surface



Turning space (Minimum level area 48" x 48")  
For the purposes of this application,  
a 2% maximum slope (For drainage) is considered level

\* 2' See general note 3

### GENERAL NOTES FOR ALL DETAILS:

- Truncated dome detectable warning surface details & locations are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc.
- Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only, unless otherwise shown. Arrange domes using square in-line pattern only. Color to be safety yellow if no color specified in construction note. All products on an installation to be identical.
- Truncated dome detectable warning surface shall be used where the pedestrian access route meets the street, in the following locations:
  - Sidewalk ramps (See Std. Drgs. RD755, RD756, & RD757).
  - Crossing islands (Accessible Route Islands), (See Std. Drg. RD710).
  - Rail crossings (See detail).
- Where public transportation stations (rail, bus, etc.) use platform boarding, truncated dome detectable warning surface shall be placed along the full edge length of the station, when not protected by platform screens or guards.
- Truncated dome detectable warning surface shall not be used on the following locations:
  - Midblock sidewalk transitions (See Std. Drg. RD756).
  - Standard concrete driveways (See Std. Drgs. RD725, RD730, RD735, RD740, RD745, & RD750).
  - Parking lots.
- Only use details allowed by jurisdiction.
- In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".

CALC. BOOK NO. N/A

BASELINE REPORT DATE 07-JAN-2013

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

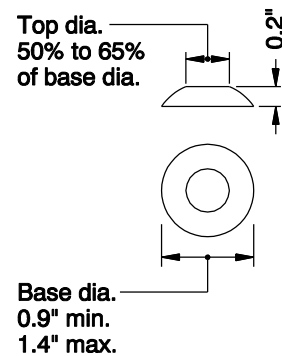
### OREGON STANDARD DRAWINGS TRUNCATED DOME DETECTABLE WARNING SURFACE

### DETAILS & LOCATIONS 2008

DATE	REVISION DESCRIPTION
06-2008	REVISED & ADDED NOTES
12-2008	REVISED DIMENSIONS AND NOTE
07-2010	REVISED DETAILS & NOTES
07-2012	REVISED NOTE
01-2013	REVISED NOTE

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

### TRUNCATED DOME DETAIL

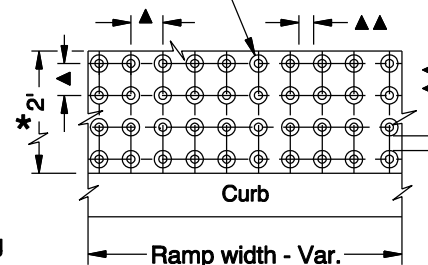


### TRUNCATED DOME DETECTABLE WARNING SURFACE

See detail for individual truncated dome

▲ Ctr. to ctr. spacing  
1.6" min.  
2.4" max.

▲▲ Base to base spacing  
0.65" min.

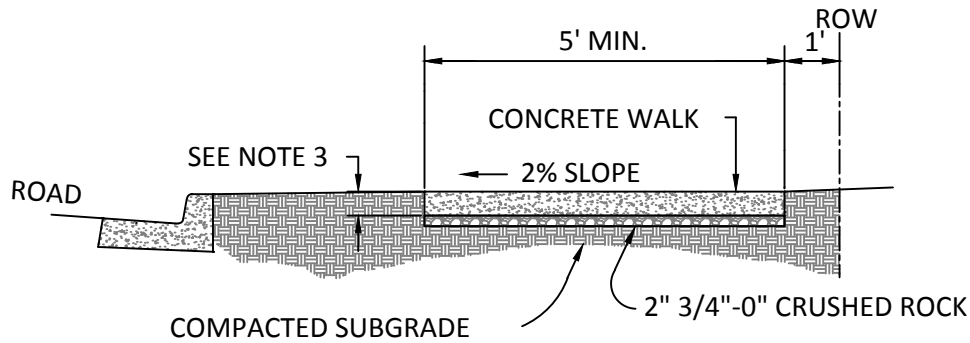


### TRUNCATED DOME PATTERN

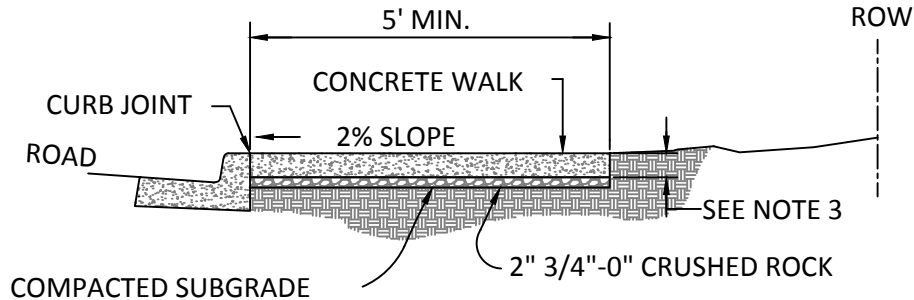
Effective Date: June 1, 2013 - November 30, 2013

RD759

PLOT DATE:	4/19/2013 8:14 AM
------------	-------------------



SIDEWALK LOCATED AT PROPERTY LINE



SIDEWALK LOCATED AT CURB

**NOTES:**

1. CONCRETE SHALL BE 3000 P.S.I. AT 28 DAYS. BATCH MIX TICKETS SHALL BE MADE AVAILABLE AT INSPECTORS REQUEST.
2. PANELS SHALL BE 5 FEET LONG, WITH EXPANSION JOINT (MIN. 3/4" THICK PREMOLDED BITUMINOUS MATERIAL) AND PLACED AT SIDES OF DRIVEWAY APPROCHES, UTILITY VAULTS & WHEELCHAIR RAMPS.
3. SIDEWALK THICKNESS SHALL BE A MINIMUM OF 5 1/2" THROUGH DRIVEWAY SECTIONS AND 3 1/2" ELSEWHERE.
4. WEEPHOLES IN CURBS SHALL BE EXTENDED TO THE BACK OF SIDEWALK WITH 3" I.D. SCH. 40 PVC AND COUPLER AT 2%± SLOPE.
5. A MINIMUM 24" WIDE SECTION OF TRUNCATED DOMES SHALL BE INSTALLED ON BOTH SIDES OF SIGNALIZED COMMERCIAL OR INDUSTRIAL DRIVEWAYS. SEE DWG. NO STR-5.0 FOR ADDITIONAL INFO ON THE REQUIREMENTS FOR TRUNCATED DOMES.



PHONE: 503.681.6146 | FAX: 503.681.6245  
150 E MAIN ST | 4TH FLOOR | HILLSBORO, OR 97123-4089

STANDARD SIDEWALK

FILE NAME: PW-080.DWG

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL  
DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET,  
ADJUST SCALES ACCORDINGLY

SHEET NO.  
PW-080

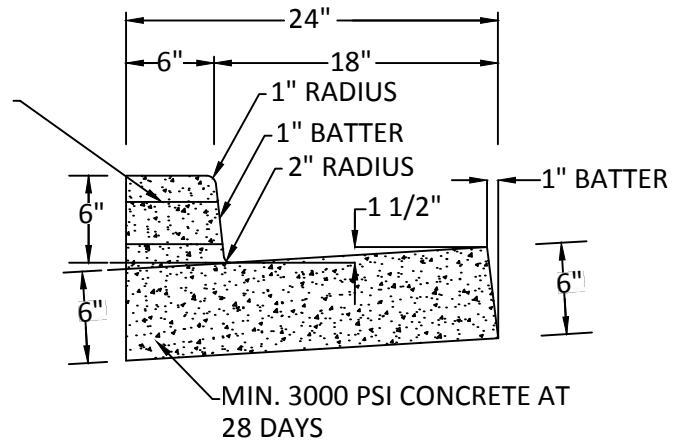
PROJECT NO.

PLOT DATE: 4/19/2013 8:15 AM

## CURB AND GUTTER

NTS

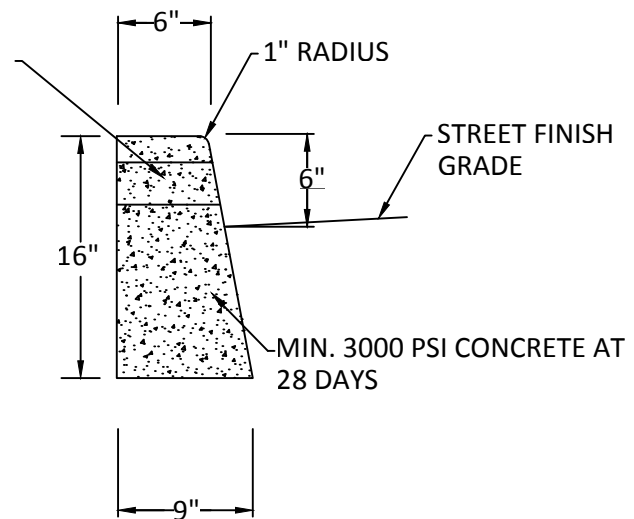
WEEPHOLE - 3" I.D. SCH 40 PVC OR EQUAL WITH  
COUPLING BEHIND BACK OF CURB



## STANDARD CURB

NTS

WEEPHOLE - 3" I.D. SCH 40 PVC OR EQUAL WITH  
COUPLING BEHIND BACK OF CURB



## NOTES

1. EXPANSION JOINTS SHALL BE PROVIDED AT EACH POINT OF TANGENCY OF THE CURB MATERIAL SHALL BE PRE-MOLDED, NON-EXTRUDING, WITH A MIN. THICKNESS OF 1/2".
2. CONTRACTION JOINTS SHALL BE A MINIMUM OF 2" DEEP & SPACED A MAXIMUM OF 15 FT. APART.
3. BASE ROCK 1-1/2" MINUS, COMPACTED TO 95% AASHTO T-180 - SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 4" IN DEPTH, WHICHEVER IS GREATER, EXTENDING 1' BEHIND CURB.
4. SLOPE OF GUTTER SHALL NOT EXCEED 5% AT WHEELCHAIR ACCESS RAMP.



PHONE: 503.681.6146 | FAX: 503.681.6245  
150 E MAIN ST | 4TH FLOOR | HILLSBORO, OR 97123-4089

STANDARD CURB

FILE NAME: PW-070.DWG

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL  
DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET,  
ADJUST SCALES ACCORDINGLY

SHEET NO.  
PW-070

PROJECT NO.

PLOT DATE: 4/19/2013 8:27 AM

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# ***CITY OF HILLSBORO STANDARD TERMS & CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS***

## **NOTICE TO ALL PUBLIC IMPROVEMENT CONTRACTORS**

**APRIL 2012**

The attached "**City of Hillsboro Standard Terms & Conditions for Public Improvement Contracts**" applies to all designated public improvement contracts. The Standard Terms & Conditions consist of the following

### **Section No.**

- |             |   |
|-------------|---|
| <b>I.</b>   | General Information                                     |
| <b>II.</b>  | Construction Contract Performance Bond and Payment Bond |
| <b>III.</b> | Instructions to Bidders                                 |
| <b>IV.</b>  | Standard General Conditions                             |
| <b>V.</b>   | Sample Bid Bond   |
| <b>VI</b>   | Sample Warranty Bond                                    |
| <b>VII.</b> | Prevailing Wage Rates <b>(BOLI)</b>                     |

(Oregon prevailing wage rates are obtained separately and are located at: [http://www.oregon.gov/BOLI/WHDPWR/pwr\\_book.shtml](http://www.oregon.gov/BOLI/WHDPWR/pwr_book.shtml)  
When Federal funds are used for a project then the Davis-Bacon Act (DBA) Wage Determination will be attached to the Invitation to Bid.)

## Part I

### I. GENERAL INFORMATION

#### 1. Bid Preparation:

**Compliance.** All bids must be sealed and received by the City of Hillsboro (herein used synonymously with the term "City" as used in the General Conditions) prior to the bid closing time and date. All bids shall be prepared in ink or by computer, but must be signed in ink by an authorized representative of the bidder.

**Product Quality.** Brand names, when used, indicate quality desired. Other brands of equal quality, merit and utility will be subject to approval, as more fully set forth under the Substitutions provision of Part II, Instructions to Bidders (SEE PART II, INSTRUCTIONS TO BIDDERS, NO. 6, SUBSTITUTIONS).

**Unit and Total Price.** The price per each item shall be clearly shown in the space provided. The pricing shall be extended to show the total when required. In case of errors in extension the unit price shall prevail. The written unit price shall prevail over the numerical unit price.

**Completion.** The bidder shall show in the space, when provided, the earliest completion date on which completion of the work can be guaranteed. Otherwise the bidder certifies that the work will be complete according to the completion time stated in the bidding documents.

**Bid Addenda.** The City of Hillsboro reserves the right to make changes to the Invitation to Bid and the resulting contract, by written addenda, prior to the closing time and date. Addenda will be faxed and/or mailed to the registered Plan holders.. The City of Hillsboro is not responsible for a bidder's failure to receive notice of addenda. Addenda shall only be issued by the City of Hillsboro and upon issuance are incorporated into the Invitation to Bid or the resulting contract. If required by addendum, bidders shall sign and return the addendum with the bid.

#### 2. Bid Evaluation:

**Minimum Requirements.** Evaluation of bids will be based on minimum requirements established by the specifications, compliance with conditions of the Invitation to Bid, and shall be subject to the City of Hillsboro's Administrative Rules. The City of Hillsboro may reject any bid not in compliance with all prescribed public bidding procedures and requirements, and may reject for good cause any or all bids upon a finding of the City of Hillsboro that it is in the public interest to do so.

**Oregon Products Preference.** Awards shall be subject to preference for products produced or manufactured in Oregon, price, fitness, availability and quality being equal (ORS 279A.120(2)(a)).

**Reciprocal Law, Bidder Preference.** In determining the lowest responsible bidder, a nonresident bidder eligible to receive a preference in the state that the bidder resides, shall have that same percentage preference added to the bid amount. [ORS 279A.120(2)(b)].

**Recycled Materials Preference.** Awards shall be subject to preference for products manufactured from recycled materials and recycled oil, as set forth under applicable state laws.

**Certification of Alteration or Erasure.** A bid may be rejected if it contains any material alteration or erasure unless, before the bid is submitted, each such alteration and erasure is initialed by the person signing the bid. Nothing in this paragraph shall be construed as allowing the bidder to alter or otherwise change the bid form included in the invitation to bid, the contract, the conditions of the bid, the specifications, and/or the plans attached to the solicitation documents.

#### 3. Bid Reading:

At the prescribed time and place given in the Invitation To Bid (ITB) bids will be publicly opened and read aloud. Bidders are invited to be present and record results. Award decisions will not be made at bid opening. Only the name of the bidder(s) and the bid item(s) to be considered for award purposes will be read at the bid opening.

#### 4. Bid Results:

To obtain bid results, notes may be taken at the public reading of the bid or a personal inspection may be made of the bid files at a later date, BY APPOINTMENT ONLY, during regular business office hours Monday through Friday. Upon request bid tabulations (tab sheets) may be obtained from the City of Hillsboro.



**CITY OF HILLSBORO**  
**STANDARD PUBLIC IMPROVEMENT CONTRACT**  
**PERFORMANCE BOND**

Bond No. \_\_\_\_\_  
Solicitation \_\_\_\_\_  
Project Name \_\_\_\_\_

_____ (Surety #1)	Bond Amount No. 1:	\$ _____
_____ (Surety #2)*	Bond Amount No. 2:*	\$ _____
* If using multiple sureties		Total Penal Sum of Bond: \$ _____

We, \_\_\_\_\_ as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of Hillsboro the sum of (Total Penal Sum of Bond)

(Provided, that we the Sureties bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety), and

WHEREAS, the Principal has entered into a contract with the City of Hillsboro, the plans, specifications, terms and conditions of which are contained in the above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Performance Bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and all authorized modifications of the Contract which increase the amount of the work, the amount of the Contract, or constitute an authorized extension of the time for performance, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things undertaken by Contractor to be performed under the Contract, upon the terms set forth therein, and within the time prescribed therein, or as extended as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless the City of Hillsboro, its elected officials, officers, employees agents and volunteers, against any direct or indirect damages or claim of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Principal or its subcontractors, and shall in all respects perform said contract according to law, then this obligation is to be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall the City of Hillsboro, or the above-referenced agency(ies), be obligated for the payment of any premiums.

**Part II**

This bond is given and received under authority of ORS Chapter 279C.380, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL: \_\_\_\_\_

By \_\_\_\_\_

Signature

Official Capacity

Attest: \_\_\_\_\_

Corporation Secretary

SURETY: \_\_\_\_\_

*[Add signatures for each surety if using multiple bonds]*

**BY ATTORNEY-IN-FACT:**

*[Power-of-Attorney must accompany each surety bond]*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

CITY OF HILLSBORO

STANDARD PUBLIC IMPROVEMENT CONTRACT

PAYMENT BOND

Bond No. \_\_\_\_\_

Solicitation \_\_\_\_\_

Project Name \_\_\_\_\_

\_\_\_\_\_(Surety #1)

Bond Amount No. 1: \$ \_\_\_\_\_

\_\_\_\_\_(Surety #2)\*

Bond Amount No. 2:\* \$ \_\_\_\_\_

*\* If using multiple sureties*

Total Penal Sum of Bond: \$ \_\_\_\_\_

We, \_\_\_\_\_, as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of Hillsboro the sum of (Total Penal Sum of Bond) \_\_\_\_\_ (Provided, that we the Sureties bind ourselves in such sum “jointly and severally” as well as “severally” only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety), and

WHEREAS, the Principal has entered into a contract with the City of Hillsboro, the plans, specifications, terms and conditions of which are contained in above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Payment Bond by reference, whether or not attached to the contract (all hereafter called “Contract”); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and schedule of contract prices which are set forth in the Contract and any attachments, and all authorized modifications of the Contract which increase the amount of the work, or the cost of the Contract, or constitute authorized extensions of time for performance of the Contract, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless the City of Hillsboro, its elected officials, officers, employees, agents and volunteers, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or its subcontractors, and shall promptly pay all persons supplying labor, materials or both to the Principal or its subcontractors for prosecution of the work provided in the Contract; and shall promptly pay all contributions due the State Industrial Accident Fund and the State Unemployment Compensation Fund from the Principal or its subcontractors

**Part II**

in connection with the performance of the Contract; and shall pay over to the Oregon Department of Revenue all sums required to be deducted and retained from the wages of employees of the Principal and its subcontractors pursuant to ORS 316.167, and shall permit no lien nor claim to be filed or prosecuted against the City on account of any labor or materials furnished; and shall do all things required of the Principal by the laws of the State of Oregon, then this obligation shall be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall the City of Hillsboro, be obligated for the payment of any premiums.

This bond is given and received under authority of ORS Chapter 279C.380, the provisions of which hereby are incorporated into this bond and made a part hereof.

**IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES:**

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL: \_\_\_\_\_

By \_\_\_\_\_

Signature

Official Capacity

Attest: \_\_\_\_\_

Corporation Secretary

SURETY: \_\_\_\_\_

*[Add signatures for each if using multiple bonds]*

**BY ATTORNEY-IN-FACT:**

*[Power-of-Attorney must accompany each bond]*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

## **Part III**

### **III. INSTRUCTIONS TO BIDDERS**

#### **1. Scope of Work:**

The work contemplated under this invitation to bid and the resulting contract includes all labor, tools, machinery, materials, transportation, equipment and services necessary for, and reasonably incidental to, the completion of all work in connection with the project described in the contract, the General Conditions, all applicable special conditions, plans, specifications, or any supplemental information that is made a part of the contract.

#### **2. Special Notice:**

The competency and responsibility of bidders and of their proposed Subcontractors will be considered in making the award.

#### **3. Construction Contractors Board (CCB) Registration Requirements:**

Bidders shall be currently registered with the CCB, holding the proper registration for the work contemplated herein, at the time of bid submittal. All Subcontractors participating in the project shall be similarly registered with the Construction Contractors Board at the time they propose to engage in subcontract work. The CCB registration requirements apply to all public works contracts unless superseded by federal law.

#### **4. Examination of Plans, Specifications, and Work Site:**

It is understood that a bidder, before submitting its bid, has made a careful examination of all plans, specifications and contract documents; that the bidder is fully informed as to the quality and quantity of materials and the character of the work required; and that the bidder has made a careful examination of the location and conditions of the work and the sources of supply for materials. It is further understood that a bid awarded hereunder is subject to the Department identified in the Invitation to Bid being able to comply with all zoning ordinances or obtain rezoning of the property where necessary. Bid shall comply with local building code restrictions and conditions for the structure or structures contemplated in the bid. Any or all of the above conditions may be contained in the contract and if such conditions are not satisfied may result in termination of the contract. The City of Hillsboro will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the Contractor as a result of the Contractor's failure to acquire full information in advance in regard to all conditions pertaining to the work.

#### **5. Interpretation of Contract Documents:**

If a bidder finds discrepancies in, or omissions from the plans, specifications or contract documents, or has doubt as to their meaning; the bidder shall at once notify the City of Hillsboro. The City of Hillsboro will then investigate and determine if an addendum will be issued (see No. 7. Protest or Request for changes).

#### **6. Substitutions:**

When a brand name(s) is required by the specifications, all bidders shall provide the specified product unless another product or products are approved through product substitution. A product substitution request shall be made in writing. The written request shall be submitted to the City of Hillsboro not later than ten (10) days prior to the bid closing date. A product substitution request shall contain sufficient information to determine product acceptability. A product substitution request that is not complete may not be considered. All approved substitutions will be listed in an addendum issued by the City of Hillsboro. NO PRODUCT SUBSTITUTION SHALL BE CONSIDERED UNLESS AUTHORIZED AND SET FORTH IN AN ADDENDUM ISSUED BY THE CITY OF HILLSBORO.

#### **7. Protest or Request for Changes of Specifications and/or Bidding Requirements (OAR 137-049-0260)**

Bidders may, in writing, protest or request changes of any [bid] specifications or contract terms. This written protest or request must be received by the City of Hillsboro unless stated differently in the bidding document no later than ten (10) days prior to the Bid Closing date. The written protest or request shall include the reasons for the protest or request, and any proposed changes to the bid specifications or contract terms. Envelopes containing bid protests shall be marked as follows:

**Bid Specification Protest or Request  
Bid Number**

No protest of the content of bid specifications or contract terms shall be considered after the deadline established for submitting protests of bid specifications or contract terms. The protest shall be reviewed and a final determination shall be made by the City Manager.

#### **8. Security to be Furnished by Each Bidder**

Each bid when the contract price exceeds \$50,000 (HMC 2.56.100B.) shall be accompanied by a certified or cashier's check or bid bond in an amount equal to 10% of the total amount of the bid as bid security to ensure that the bidder, if offered, will execute the contract agreement and provide the performance, payment and warranty bond as required. The lowest responsible and responsive bidder will be required to provide a performance bond and a payment bond in an amount equal to one hundred percent 100% of the contract award when the contract amount exceeds \$50,000 (HMC 2.56.100C.2.).

The City of Hillsboro reserves the right to hold the bid security of all bidders until the Notice to Proceed is issued or for sixty (60) days after bid closing, whichever is sooner (unless a longer or shorter period is specified in the Invitation to Bid.)

Should the bidder fail to execute the contract agreement and furnish the satisfactory performance and payment bond after the bid has been accepted, the bid security shall become the property of the City of Hillsboro.

## **Part III**

### **9. Bids are Offers**

The bid is the bidder's offer to enter into a contract which, if the bid is accepted for award, binds the bidder to a contract and the terms and conditions contained in the Invitation to Bid. A bidder shall not make the bid contingent upon the City's acceptance of specifications or contract terms that conflict with or are in addition to those advertised in the Invitation to Bid, except that a bidder may condition the time for bid acceptance in accordance with the Time for Bid Acceptance provision.

### **10. Time for Bid Acceptance**

A bidder may submit a bid response conditioning the time for bid acceptance contained in the Invitation to Bid. The City of Hillsboro reserves the right to consider a bid response containing a condition that limits its time for bid acceptance. The City of Hillsboro may, solely at its option, accept a shorter time for bid acceptance, even though the Invitation to Bid may state a longer period. The City of Hillsboro reserves the right to either accept or reject the bid response containing the time condition if the bid response is otherwise the lowest responsible and responsive bidder.

### **11. Filling in Bid Forms**

The bid response shall be made on the form provided in the Invitation to Bid and as prescribed by the City of Hillsboro. The bidder or proposer may not alter, modify or change the bid form except as directed by bid addendum. Any other form of the bid is invalid. Bidders are required to use the form provided within the Invitation to Bid.

Bids may be rejected if they contain any recapitulation or restating of the work to be done, disclaimers, exceptions or other limitations. Any submitted bid that is not properly and completely filled out may be rejected as being non-responsive.

The bid response shall be sealed and delivered to the location specified in the Invitation To Bid (ITB) prior to the bid closing time and date. Bids received after the bid closing time and date shall not be considered for award and will be returned to the bidder unopened.

### **12. Drug Testing Requirements**

Pursuant to ORS 279C.505, the bidder certifies by its signature on these solicitation document forms that it has a Drug Testing Program in place for its employees.

### **13. Modification of Bids**

Once submitted, bids may be modified in writing prior to the time and date set for bid closing. Modifications shall be prepared on the bidder's letterhead, signed by an authorized representative of the bidder, state that the new document supersedes or modifies the prior bid and be submitted in a sealed envelope, appropriately marked identifying the bid number and closing time and date. Telephone, telegraphic and facsimile modifications are not acceptable. The written modification shall be made a permanent part of the public bid file.

### **14. Withdrawal of Bids**

A bid may be withdrawn prior to the bid closing time and date. Bids may be withdrawn in writing, on the bidder's letterhead, signed by an authorized representative of the bidder, and appropriately marked, identifying the bid number and closing time and date. Telephone, telegraphic and facsimile modifications are not acceptable. The written bid withdrawal shall be made a permanent part of the public bid file.

### **15. Protest of Award (Also see Section I, #10 of the Invitation to Bid)**

An adversely affected or aggrieved bidder may protest contract award within the time stipulated in the bidding documents or if no time is including in the solicitation documents, then seven (7) days following issuance of the written "Notice of Intent to Award." Notice of contract award shall consist of either a notice to the apparent lowest bidder or issuance of the Notice to Proceed (whichever is earliest). Unsuccessful bidders are not generally notified that a contract is awarded. In order to be an adversely affected or aggrieved bidder, the bidder must claim to be eligible for award of the contract as the lowest responsible and responsive bidder and that any and all lower bidders are ineligible to receive contract award.

An actual bidder who is adversely affected or aggrieved by the award of the contract to another bidder may protest award, in writing, within the timeline established. The written protest shall state the grounds upon which the protest is based. No protest of award shall be considered after the established timeliness. The protest of award shall be submitted to the City Manager at 150 East Main Street, Hillsboro, Oregon 97123. The protest shall be reviewed and a final determination shall be made by the City Manager.

**16. Pursuant to OAR 137-049-0260**, no protest against award because of the content of bid specifications or contract terms shall be considered after the deadline established for submitting protests of bid specifications or contract terms.

**CITY OF HILLSBORO  
STANDARD GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS  
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- A.2 SCOPE OF WORK
- A.3 CONTRACT DOCUMENTS
- A.4 INTERPRETATION OF DOCUMENTS
- A.5 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE
- A.6 INDEPENDENT CONTRACTOR STATUS, TAX CERTIFICATION
- A.7 RETIREMENT SYSTEM STATUS AND TAXES
- A.8 GOVERNMENT EMPLOYMENT STATUS
- A.9 ASSIGNMENT OF ANTITRUST RIGHTS

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- B.3 PERMITS
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- B.8 ACCESS TO RECORDS
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**SECTION L**  
**LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

- L.1 LAWS TO BE OBSERVED
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## Part IV

### CITY OF HILLSBORO STANDARD GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS

#### SECTION A

##### A.1 DEFINITION OF TERMS

In the Contract Documents the following terms shall be as defined below:

**ARCHITECT**, means a person who is registered and holds a valid certificate in the practice of architecture in the State of Oregon, as provided under ORS 671.010 to 671.220, and includes without limitation the terms "architect," "licensed architect" and "registered architect."

**BID**, means a competitive offer, which is binding on the offeror, in which price, delivery (or Project completion), and conformance to specification and the requirements of the Invitation to Bid will be the predominant award criteria.

**BIDDER**, means the Person who submits a Bid in response to the City's Invitation to Bid.

**CITY**, means City of Hillsboro.

**CITY'S AUTHORIZED REPRESENTATIVE**, means those individuals identified in writing by the City to act on behalf of the City for this Project.

**CLAIM**, means a resubmitted change request which has been previously denied by the City's Authorized Representative.

**CONTRACT**, means the written agreement between the City and the Contractor comprised of the Contract Documents which describe the Work to be done and the obligations between the parties.

**CONTRACT DOCUMENTS**, means the Solicitation Document and addenda thereto, Instructions to Bidders or Proposers, General Conditions, Supplemental General Conditions, if any, accepted Bid, the Contract and amendments thereto, if any, performance bond, Plans, Specifications, approved shop drawings, and approved change orders.

**CONTRACT PERIOD**, as set forth in the Contract Documents, means the period beginning with the issuance of the Notice to Proceed and concluding upon Final Completion.

**CONTRACT PRICE**, means the total of the awarded bid amount, as increased or decreased by the price of approved alternates and change orders.

**CONTRACTOR**, means the Person awarded the Contract for the Work contemplated.

**DAYS**, are calendar days, including weekdays, weekends and holidays, unless otherwise specified.

**DIRECT COSTS**, means, unless otherwise provided in the Contract Documents, the cost of materials, including sales tax, cost of delivery; cost of labor, including social security, old age and unemployment insurance, and fringe benefits required by agreement or custom; worker's compensation insurance; bond premiums, rental cost of equipment, and

machinery; and the additional costs of field personnel directly attributable to the Work.

**DISADVANTAGED BUSINESS ENTERPRISE**, as defined in ORS 200.005, means a small business concern which is at least 51 percent owned by one or more socially and economically disadvantaged individuals, or, in the case of any corporation, at least 51 percent of the stock of which is owned by one or more socially disadvantaged individuals and whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.

**ECONOMICALLY DISADVANTAGED INDIVIDUAL**, as defined in ORS 200.005, means an individual who is socially disadvantaged and whose ability to compete in the free enterprise system has been impaired due to diminished capital and credit opportunities as compared to another in the same business area who is not socially disadvantaged.

**EMERGING SMALL BUSINESS**, means (a) a business with its principal place of business located in this state; (b) a business with average annual gross receipts over the last three years not exceeding \$1 million for construction firms and \$300,000 for non-construction firms; (c) a business which has fewer than 20 employees; (d) an independent business; (e) a business properly licensed and legally registered in this state, and (f) a business certified by the Office of Minority, Women and Emerging Small Business.

**ENGINEER**, means a person who is registered and holds a valid certificate in the practice of engineering in the State of Oregon, as provided under ORS 672.002 to 672.325, and includes all terms listed in ORS 672.002 (2).

**FINAL COMPLETION**, means the final completion of all requirements under the Contract, including Contract Closeout as described in Section K but excluding Warranty Work as described in Section I.2, and the final payment and release of all retainage, if any, released.

**FORCE MAJEURE**, means an act, event or occurrence caused by fire, riot, war, acts of God, nature, sovereign, or public enemy, strikes, freight embargoes or any other act, event or occurrence that is beyond the control of the party to this Contract who is asserting Force Majeure.

**INVITATION TO BID**, means the solicitation document utilized for this Project.

**MINORITY OR WOMEN BUSINESS ENTERPRISE**, as defined in ORS 200.005, means a small business concern which is at least 51 percent owned by one or more minorities or women, or in the case of a corporation, at least 51 percent of the stock of which is owned by one or more minorities or women, and whose management and daily business operations are controlled by one or more such individuals.

**MINORITY INDIVIDUAL**, as defined in ORS 200.005, means a person who is a citizen or lawful permanent resident of the United States who is:

(a) Black who is a person having origins in any of the black racial groups of Africa;



## Part IV

(b) Hispanic who is a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race;

(c) Asian American who is a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands;

(d) Portuguese who is a person of Portuguese, Brazilian or other Portuguese culture or origin, regardless of race;

(e) American Indian or Alaskan Native who is a person having origins in any of the original peoples of North America; or

(f) Member of another group, or another individual who is socially and economically disadvantaged as determined by the Advocate for Minority, Women and Emerging Small Businesses.

**NOTICE TO PROCEED**, means the official written notice from the City stating that the Contractor is to proceed with the Work defined in the Contract Documents. Notwithstanding the Notice to Proceed, Contractor shall not be authorized to proceed with the Work until all initial Contract requirements, including the Contract, a 100% performance bond and a 100% payment bond, and certificates of insurance, have been fully executed and submitted to the City in a suitable form.

**OFFER**, means a bid in connection with an invitation to bid and a proposal in connection with a request for proposals.

**OFFEROR**, means a bidder in connection with an invitation to bid and a proposer in connection with a request for proposals.

**OVERHEAD**, means those items which may be included in the Contractor's markup (general and administrative expense, overhead and profit) and shall not be charged as direct cost of the Work: personnel above the level of foreman (i.e., superintendents and Project managers); equipment owned or leased by the Contractor (i.e., job trailers, small tools); expenses of the Contractor's offices including personnel; and overhead and general administrative expenses.

**PERSON**, means an individual doing business as a sole proprietorship, a partnership, a joint venture, a corporation, a limited liability company or partnership, or any other entity possessing the legal capacity to contract.

**PLANS**, means the drawings which show the location, type, dimensions, and details of the Work to be done under the Contract.

**PROJECT**, means the specific work to be performed as described in the Contract Documents.

**PROJECT MANAGER**, Means the individual identified in the bid documents or contract, which may act on behalf of the City for this project.

**PUNCHLIST**, means the list of Work yet to be completed or deficiencies which need to be corrected in order to achieve Final Completion of the Contract.

**SMALL BUSINESS CONCERN**, as defined in ORS 200.005, means a small business as defined by the United States Small Business Administration per 13 CFR, part 121, as amended.

**SOCIALLY DISADVANTAGED INDIVIDUAL**, as defined in ORS 200.005, means an individual who has been subjected to racial or ethnic prejudice or cultural bias, without regard to individual qualities, because of the individual's identity as a member of a group.

**SOLICITATION DOCUMENT**, means an invitation to bid or request for proposal or request for quotes.

**SPECIFICATION**, means any description of the physical or functional characteristics of the Work, or of the nature of a supply, service or construction item. Specifications may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery and the quantities or qualities of materials to be furnished under the Contract. Specifications generally will state the results or products to be obtained and may, on occasion, describe the method and manner of doing the work to be performed. Specifications may be incorporated by reference and/or may be attached to the Contract.

**SUBCONTRACTOR**, means a Person having a direct contract with the Contractor, or another Subcontractor, to perform one or more items of the Work.

**SUBSTANTIAL COMPLETION**, means the date when the City accepts in writing the construction, alteration or repair of the improvement to real property or any designated portion thereof as having reached that state of completion when it may be used or occupied for its intended purpose. (Refer also to Section K.4.)

**SUBSTITUTIONS**, means items that are the same or better in function, performance, reliability, quality, and general configuration as that product(s) specified. Approval of any substitute item shall be solely determined by the City's Authorized Representative. The decision of the City's Authorized Representative is final.

**SUPPLEMENTAL GENERAL CONDITIONS**, means those conditions that remove from, add to, or modify these General Conditions. Supplemental General Conditions may be included in the Solicitation Document or may be a separate attachment to the Contract. To the extent the terms of the Supplemental General Conditions and these General Conditions conflict, the terms of Supplemental General Conditions will prevail.

**WOMAN**, as defined in ORS 200.005, means a person of the female sex who is a citizen or lawful permanent resident of the United States.

**WORK**, means the furnishing of all materials, equipment, labor, transportation, services and incidentals necessary to successfully complete any individual item or the entire Contract and the carrying out of duties and obligations imposed by the Contract Documents.

## Part IV

### A.2 SCOPE OF WORK

The Work contemplated under this Contract includes all labor, materials, transportation, equipment and services for, and incidental to, the completion of all construction work in connection with the Project described in the Contract Documents. The Contractor shall perform all Work necessary so that the Project can be legally occupied and fully used for the intended use as set forth in the Contract Documents.

### A.3 CONTRACT DOCUMENTS

The Contract Documents consist of the Solicitation Document, Invitation to Bid including any bid addenda, Instructions to Bidders, General Conditions, Supplemental Conditions, if any, accepted Bid, the Contract and amendments thereto, if any, Performance/Payment Bond, Plans, Specifications, approved shop drawings, approved equals and approved change orders.

### A.4 INTERPRETATION OF DOCUMENTS

A4.1 The Contract Documents are intended to be complementary. Whatever is called for in one, is interpreted to be called for in all. However, in the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following priorities

1. The Contract, and amendments to same, with those of later date having precedence over those of an earlier date;
2. Bidding Documents, (all Items listed)
- 3 The Supplemental Conditions (if any);
4. The Standard Terms & Conditions of the City of Hillsboro;
5. Specifications and Plans and notes on Plans.

A4.2 In the case of an inconsistency between Plans and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the City or City's Authorized Representative's interpretation in writing.

A4.3 If the Contractor finds discrepancies in, or omissions from the Contract Documents, or if the Contractor is in doubt as to their meaning, the Contractor shall at once notify the City or City's Authorized Representative. Contractor shall not proceed without direction in writing from the City or City's Authorized Representative.

A4.4 References to standard specifications, manuals, codes of any technical society, organization or association, to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws or regulations in effect in the jurisdiction where the Project is occurring on the first published date of the Solicitation Document, except as may be otherwise specifically stated.

### A.5 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE

A.5.1 It is understood that the Contractor, before submitting a Bid, has made a careful examination of the Contract Documents; has become fully informed as to the quality and quantity of materials and the character of the Work required; and has made a careful examination of the location and conditions of the Work and the sources of

supply for materials. The City will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the Contractor as a result of the Contractor's failure to acquire full information in advance in regard to all conditions pertaining to the Work. No oral agreement or conversation with any officer, agent, or personnel of the City, or with the Architect/Engineer either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

A.5.2 Should the Plans or Specifications fail to particularly describe the materials, kind of goods, or details of construction of any aspect of the Work, Contractor shall have the duty to make inquiry of the City and Architect/Engineer as to what is required prior to performance of the Work. Absent Specifications to the contrary, the materials or processes that would normally be used to produce first quality finished Work shall be considered a part of the Contract requirements.

A.5.3 Any design errors or omissions noted by the Contractor shall be reported promptly to the City's Authorized Representative, including without limitation, any nonconformity with applicable laws, statutes, ordinances, building codes, rules and regulations.

A.5.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions issued by the City's Authorized Representative in response to the Contractor's notices or requests for information, the Contractor must submit a written request to the City's Authorized Representative, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than five (5) Days after receipt by Contractor of the clarifications or instructions issued. If the Contractor does not concur with the decision of the City's Authorized Representative regarding time and cost impacts of the clarifications or instructions, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process. If the Contractor fails to perform the obligations of Sections A.5.1 to A.5.3, the Contractor shall pay such costs and damages to the City as would have been avoided if the Contractor had performed such obligations.

### A.6 INDEPENDENT CONTRACTOR STATUS & TAX CERTIFICATE

The service or services to be performed under this Contract are those of an independent contractor. Contractor is not an officer, employee or agent of the City as those terms are used in ORS 30.265.

Contractor certifies that it is in full compliance with the Oregon tax laws in accordance with ORS 305.385.

### A.7 RETIREMENT SYSTEM STATUS & TAXES

Contractor is not a contributing member of the Public Employees' Retirement System and will be responsible for any federal or state taxes applicable to payment received under this Contract. Contractor will not be eligible for any benefits from these Contract payments of federal Social Security, employment insurance, workers' compensation or the Public Employees' Retirement System, except as a self-employed individual. Unless the Contractor is subject to backup withholding, City will not withhold from such payments any amount(s) to cover Contractor's federal or state tax obligations

## **Part IV**

### **A.8 GOVERNMENT EMPLOYMENT STATUS**

A.8.1 If this payment is to be charged against federal funds, Contractor certifies that it is not currently employed by the Federal Government. This does not preclude the Contractor from holding another contract with the Federal Government.

A.8.2 Contractor certifies that Contractor is not an employee of the State of Oregon for purposes of performing Work under this Contract.

### **A.9 ASSIGNMENT OF ANTI-TRUST RIGHTS**

By entering into a contract, the contractor, for consideration paid to the contractor under the contract, does irrevocably assign to the City of Hillsboro any claim for relief or cause of action which the contractor now has or which may accrue to the contractor in the future, including at the City's option, the right to control any such litigation on such claim for relief or cause of action, by reason of any violation of 15 USC ss. 1-15 or ORS 646.725 or ORS 646.730, in connection with any goods or services provided to the contractor by any person, which goods or services are used, in whole or in part, for the purpose of carrying out the contractor's obligations under this contract.

In the event the contractor hires subcontractors to perform any of the contractor's duties under the contract, the contractor shall require the subcontractor to irrevocably assign to the City of Hillsboro, as a third party beneficiary any right, title or interest that has accrued or may accrue to the subcontractor by reason of any violation of 15 USC ss. 1-15, ORS 646.725 or ORS 646.730, including at the City's option, the rights to control any litigation arising there under, in connection with any goods or services provided to the subcontractor by any person, in whole or in part, for the purpose of carrying out the subcontractor's obligations as agreed to by the contractor in pursuance of the completion of the contract.

In connection with this assignment, it is an express obligation of the contractor that it will take no action which will in any way diminish the value of the rights conveyed or assigned hereunder to the City of Hillsboro. It is an express obligation of the contractor to advise the City Attorney:

A9.1 In advance, of its intention to commence any action on its own behalf regarding such claims for relief or causes of action.

A9.2 Immediately, upon becoming aware of the fact that an action has been commenced on its own behalf by some other person or persons, of the tendency of such action; and

A9.3 The date on which it notified the obligor(s) of any such claims for relief or causes of action of the fact of its assignment to the City of Hillsboro.

Furthermore, it is understood or agreed that in the event that any payment under any such claim is made to the contractor, it shall promptly pay over to the City of Hillsboro its proportionate share thereof, if any, assigned to the City hereunder.

## **SECTION B**

### **ADMINISTRATION OF THE CONTRACT**

#### **B.1 CONTRACTOR'S MITIGATION OF IMPACTS**

B.1.1 The Contractor is responsible to protect and maintain the Work during the course of construction and to mitigate any adverse impacts to the Project, including those caused

by authorized changes, which may affect cost, schedule, or quality.

B.1.2 The Contractor is responsible for the actions of all its personnel, laborers, suppliers, and Subcontractors on the Project.

#### **B.2 MATERIALS AND WORKMANSHIP**

B.2.1 The intent of the Contract Documents is to provide for the construction and completion in every detail of the Work described. All Work shall be performed in a professional manner and unless the means or methods of performing a task are specified elsewhere in the Contract Documents, Contractor shall employ methods that are generally accepted and used by the industry, in accordance with industry standards.

B.2.2 The Contractor is responsible to perform the Work as required by the Contract Documents. Defective Work shall be corrected at the Contractor's expense.

B.2.3 Work done and materials furnished shall be subject to inspection and/or observation and testing by the City's Authorized Representative to determine if they conform to the Contract Documents. Inspection of the Work by the City's Authorized Representative does not relieve the Contractor of responsibility for the Work in accordance with the Contract Documents.

B.2.4 Contractor shall furnish adequate facilities, as required, for the City's Authorized Representative to have safe access to the Work including without limitation walkways, railings, ladders, tunnels, and platforms. Producers, suppliers, and fabricators shall also provide proper facilities and access to their facilities.

B.2.5 The Contractor shall furnish samples of materials for testing by the City's Authorized Representative and include the cost of the samples in the Contract Price.

#### **B.3 PERMITS**

B.3.1 Contractor shall obtain and pay for all necessary permits and licenses, except for those specifically excluded in the Supplemental General Conditions, for the construction of the Work, for temporary obstructions, enclosures, opening of streets for pipes, walls, utilities, environmental, etc., as required for the Project. Contractor shall be responsible for all violations of the law, in connection with the construction or caused by obstructing streets, sidewalks or otherwise. Contractor shall give all requisite notices to public authorities. The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any patent rights and save harmless and blameless from loss, on account thereof, the City of Hillsboro, and its departments, divisions, members and employees.

#### **B.4 COMPLIANCE WITH GOVERNMENT REGULATIONS**

B.4.1 Contractor shall comply with all federal, state and local laws, codes, regulations and ordinances applicable to the Work including obtaining a City of Hillsboro Business License or obtaining a METRO contractor's business license and complying with the rules adopted by the Oregon Utility Notification Center. Failure to comply with such requirements shall constitute a breach of Contract and shall be grounds for Contract termination. Damages or costs resulting from noncompliance shall be the responsibility of Contractor.

B.4.2 Contractor shall comply with all applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations; and

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a) Contractor shall not discriminate against Minority, Women or Emerging Small Business enterprises in the awarding of subcontracts or against a business enterprise that is owned or controlled by or that employs a disabled veteran as defined by ORS 408.225.(ORS 279A.110).

b) Contractor shall maintain, in current and valid form, all licenses and certificates required by law, regulation, or this Contract when performing the Work.

B.4.3 Unless contrary to federal law, Contractor shall certify that it shall not accept a bid or proposal from Subcontractors to perform Work as described in ORS 701.005 under this Contract unless such Subcontractors are registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time they submit their bids or proposals to the Contractor.

B.4.4 Unless contrary to federal law, Contractor shall certify that each landscape contractor, as defined in ORS 671.520(2), performing Work under this Contract holds a valid landscape contractor's license issued pursuant to ORS 671.560.

B.4.5 The following notice is applicable to Contractors who perform excavation Work. ATTENTION: Contractor acknowledges and agrees that Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center at (503)232-1987.

B.4.6 Failure to comply with any or all of the requirements of B.4.1 through B.4.5 shall be a breach of Contract and constitute grounds for Contract termination. Damages or costs resulting from such noncompliance shall be the responsibility of Contractor.

### **B.5 SUPERINTENDENCE**

Contractor shall keep on the site, during the progress of the Work, a competent superintendent and any necessary assistants who shall be satisfactory to the City and who shall represent the Contractor on the site. Directions given to the superintendent by the City's Authorized Representative shall be confirmed in writing to the Contractor.

### **B.6 INSPECTION**

B.6.1 City's Authorized Representative shall have access to the Work at all times.

B.6.2 Inspection of the Work will be made by the City's Authorized Representative at its discretion. The City's Authorized Representative will have authority to reject Work that does not conform to the Contract Documents. Any Work found to be not in conformance with the Contract Documents, in the discretion of the City's Authorized Representative, shall be removed and replaced at the Contractor's expense.

B.6.3 Contractor shall make or obtain at the appropriate time all tests, inspections and approvals of portions of the Work required by the Contract Documents or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the City, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work. The Contractor shall give the City's Authorized

Representative 72 hours notice, not including weekends or holidays, of when and where tests and inspections are to be made so that the City's Authorized Representative may be present for such procedures. Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the City's Authorized Representative.

B.6.4 As required by the Contract Documents, Work done or material used without inspection or testing by the City's Authorized Representative may be ordered removed at the Contractor's expense.

B.6.5 If directed to do so any time before the Work is accepted, the Contractor shall uncover portions of the completed Work for inspection. After inspection, the Contractor shall restore such portions of Work to the standard required by the Contract. If the Work uncovered is unacceptable or was done without sufficient notice to the City's Authorized Representative, the uncovering and restoration shall be done at the Contractor's expense. If the Work uncovered is acceptable and was done with sufficient notice to the City's Authorized Representative, the uncovering and restoration will be paid for as a change order.

B.6.6 If any testing or inspection reveals failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the City's Authorized Representative's and Architect/Engineer's services and expenses, shall be at the Contractor's expense.

B.6.7 When the United States government participates in the cost of the Work, or the City has an agreement with other public or private organizations, or if any portion of the Work is being performed for a third party or in close proximity to third party facilities, representatives of these organizations have the right to inspect the Work affecting their interests or property. Their right to inspect shall not make them a party to the Contract and shall not interfere with the rights of the parties of the Contract. Instructions or orders of such parties shall be transmitted to the Contractor, through the City's Authorized Representative.

### **B.7 SEVERABILITY**

If any provision of this Contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular provision held to be invalid.

### **B.8 ACCESS TO RECORDS**

B.8.1 Contractor shall keep, at all times on the Work site, a copy of the complete Contract Documents and current record drawings, and shall at all times give the City's Authorized Representative access thereto.

B.8.2 The City and its duly authorized representatives shall have access, for a period not less than three (3) years, to books, documents, papers and records of Contractor which are pertinent to the Contract including records pertaining to overhead and indirect costs, for the purpose of making audit, examination, excerpts and transcripts. If for any reason, any part of the Contract is involved in litigation, Contractor shall retain all pertinent records until all litigation is resolved. The City and/or its agents will continue to be provided full access to the records during litigation.

## **Part IV**

### **B.9 WAIVER**

Failure of the City to enforce any provision of this Contract shall not constitute a waiver or relinquishment by the City of the right to such performance in the future nor of the right to enforce any other provision of this Contract.

### **B.10 ASSIGNMENTS/SUBCONTRACT**

Contractor shall not assign, sell, or transfer its rights, or delegate its responsibilities under this Contract, in whole or in part, without the prior written approval of the City. No such written approval shall relieve Contractor of any obligations of this Contract, and any transferee shall be considered the agent of the Contractor and bound to perform in accordance with the Contract Documents. Contractor shall remain liable as between the original parties to the Contract as if no assignment had occurred.

### **B.11 SUCCESSORS IN INTEREST**

The provisions of this Contract shall be binding upon and shall accrue to the benefit of the parties to the Contract and their respective successors and assigns.

### **B.12 CITY'S RIGHT TO DO WORK**

City reserves the right to perform other or additional work at or near the Project site with other forces than those of the Contractor. If such work takes place within or next to the Project site, Contractor will coordinate work with the other contractors or forces, cooperate with all other contractors or forces, carry out the Work in a way that will minimize interference and delay for all forces involved, place and dispose of materials being used so as not to interfere with the operations of another, and join the Work with the work of the others in an acceptable manner and perform it in proper sequence to that of the others. The City's Authorized Representative will resolve any disagreements that may arise between or among Contractor and the other contractors over the method or order of doing all work (including the Work). In case of unavoidable interference, the City's Authorized Representative will establish work priority (including the Work) which generally will be in the sequence that the contracts were awarded.

### **B.13 OTHER CONTRACTS**

In all cases and at any time, the City has the right to execute other contracts related to or unrelated to the Work of this Contract. The Contractor of this Contract will fully cooperate with any and all other contractors without additional cost to the City in the manner described in section B.12.

### **B.14 GOVERNING LAW**

This Contract shall be governed by and construed in accordance with the laws of the State of Oregon without regard to principles of conflict of laws.

### **B.15 LITIGATION**

Any Claim between City and Contractor that arises from or relates to this Contract and that is not resolved through the Claims Review Process in Section D.3 shall be brought and conducted solely and exclusively within the Circuit Court of Washington County for the State of Oregon; provided, however, if a Claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the City of Hillsboro on any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh

Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR BY EXECUTION OF THIS CONTRACT HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION B.15.

### **B.16 ALLOWANCES**

B.16.1 The Contractor shall include in the Contract Price all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the City may direct.

B.16.2 Unless otherwise provided in the Contract Documents:

(a) when finally reconciled, allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

(b) Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Price but not in the allowances;

(c) whenever costs are more than or less than allowances, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (i) the difference between actual costs and the allowances under Section B.16.2(a) and (2) changes in Contractor's costs under Section B.16.2(b).

(d) Unless City requests otherwise, Contractor shall provide to City a proposed fixed price for any allowance work prior to its performance.

### **B.17 SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES**

B.17.1 The Contractor shall prepare and keep current, for the City's Authorized Representative, a schedule and list of submittals, which is coordinated with the Contractor's construction schedule and allows the City's Authorized Representative ten (10) days to review submittals. The City reserves the right to finally approve the schedule and the list of submittals. Submittals include, without limitation, Shop Drawings, Product Data, and Samples, which are described below:

(a) Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

(b) Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

(c) Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

B.17.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents. Review of submittals by the Architect/Engineer is not conducted for the purpose of determining the accuracy and completeness of other details

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such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, or for approval of safety precautions or, unless otherwise specifically stated by the Architect/Engineer, of any construction means, methods, techniques, sequences or procedures, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect/Engineer's review of the Contractor's submittals shall not relieve the Contractor of its obligations under the Contract Documents. The Architect/Engineer's approval of a specific item shall not indicate approval of an assembly of which the item is a component. Informational submittals upon which the Architect/Engineer is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Architect/Engineer without action.

B.17.3 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect/Engineer Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the City or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect/Engineer without action.

B.17.4 By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

B.17.5 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect/Engineer.

B.17.6 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect/Engineer's review or approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect/Engineer in writing of such deviation at the time of submittal and (1) the Architect/Engineer has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order has been executed by the City authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect/Engineer's review or approval thereof.

B.17.7 In the event that the City elects not to have the obligations and duties described under this Section B.17 performed by the Architect/Engineer, or in the event no Architect/Engineer is employed by the City on the project, all obligations and duties assigned to the Architect/Engineer hereunder shall be performed by the City's Authorized Representative.

### **B.18 SUBSTITUTIONS**

The Contractor may make Substitutions only with the consent of the City, after evaluation by the City's Authorized Representative and only in accordance with a Change Order. Substitutions shall be subject to the requirements of the bid documents. By making requests for

Substitutions, the Contractor represents that the Contractor has personally investigated the proposed substitute product; represents that the Contractor will provide the same warranty for the Substitution that the Contractor would for the product originally specified unless approved otherwise; certifies that the cost data presented is complete and includes all related costs under this Contract including redesign costs, and waives all claims for additional costs related to the Substitution which subsequently become apparent; and will coordinate the installation of the accepted Substitution, making such changes as may be required for the Work to be completed in all respects.

### **B.19 USE OF PLANS AND SPECIFICATIONS**

Plans, Specifications and related Contract Documents furnished to Contractor by City or City's Architect/Engineer shall be used solely for the performance of the Work under this Contract. Contractor and its Subcontractors and suppliers are authorized to use and reproduce applicable portions of such documents appropriate to the execution of the Work, but shall not claim any ownership or other interest in them beyond the scope of this Contract, and no such interest shall attach. Unless otherwise indicated, all common law, statutory and other reserved rights, in addition to copyrights, are retained by the City.

### **B.20 FUNDS AVAILABLE AND AUTHORIZED**

The City reasonably believes at the time of entering into this Contract that sufficient funds are available and authorized for expenditure to finance the cost of this Contract within the City's appropriation or limitation. Contractor understands and agrees that, to the extent that sufficient funds are not available and authorized for expenditure to finance the cost of this Contract, the City's payment of amounts under this Contract attributable to Services performed after the last day of the current fiscal year is contingent on the City receiving from the City of Hillsboro City Council appropriations, limitations or other expenditure authority sufficient to allow the City, in the exercise of its reasonable administrative discretion, to continue to make payments under this Contract.

### **B.21 ATTORNEY FEES**

If a suit or action is filed to enforce any of the terms of this Contract each party is responsible for their respective costs and fees, including attorney fees.

## **SECTION C**

### **WAGES AND LABOR**

#### **C.1 WAGE RATES ON PUBLIC WORKS**

C.1.1 When the Contract price exceeds \$50,000 or when \$2,000 or more of Federal funds are used, the Contractor shall comply fully with the provisions of ORS 279C.800 through 279C.870, including the prevailing wage rates established by the Bureau of Labor and Industries (BOLI). Documents establishing those conditions, as determined by the Commissioner of the Bureau of Labor and Industries (BOLI), are incorporated as referenced herein. If Federal funds are used then the Davis-Bacon Act (DBA) Wage Determination will be attached to the Invitation to Bid. The Contractor and Subcontractor(s) shall pay the higher of the applicable State or Federal prevailing rate of wage.

C.1.2 In accordance with ORS 279C.830(c)(3) the Contractor and every subcontractor must have a public works bond filed with the Construction Contractors Board before starting work on the project unless exempt.

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### **C.2 PAYROLL CERTIFICATION AND FEE REQUIREMENTS; ADDITIONAL RETAINAGE**

C.2.1 In accordance with ORS 279C.845, the Contractor and every Subcontractor shall submit written certified statements to the City's Authorized Representative, on the form prescribed by the Commissioner of the Bureau of Labor and Industries (BOLI), certifying the hourly rate of wage paid each worker which the Contractor or the Subcontractor has employed on the project and further certifying that no worker employed on the project has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract, which certificate and statement shall be verified by the oath of the Contractor or the Subcontractor that the Contractor or Subcontractor has read such statement and certificate and knows the contents thereof and that the same is true to the Contractor or Subcontractor's best knowledge and belief. The certified statements shall set out accurately and completely the payroll records for the prior week including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made and actual wages paid. Certified statements for each week during which the Contractor or Subcontractor has employed a worker on the project shall be submitted once a month, by the fifth business day of the following month.

The Contractor and Subcontractors shall preserve the certified statements for a period of six (6) years from the date of completion of the Contract.

C.2.2 Pursuant to ORS 279C.845(7), the City shall retain 25 percent of any amount earned by the Contractor on this public works project until the Contractor has filed the certified statements required by section C.2.1. The City shall pay to the Contractor the amount retained under this subsection within 14 days after the Contractor files the required certified statements, regardless of whether a Subcontractor has failed to file certified statements.

C.2.3 Pursuant to ORS 279C.845(8), the Contractor shall retain 25 percent of any amount earned by a first-tier Subcontractor on this public works project until the first-tier Subcontractor has filed with the City the certified statements required by C.2.1. Before paying any amount retained under this subsection, the Contractor shall verify that the first-tier Subcontractor has filed the certified statement. Within 14 days after the first-tier Subcontractor files the required certified statement the Contractor shall pay the first-tier Subcontractor any amount retained under this subsection.

C.2.4 Pursuant to ORS 279C.825 and in accordance with administrative rules promulgated by the Commissioner of the Bureau of Labor and Industries, a fee is required to be paid by the City to the Bureau of Labor and Industries.

### **C.3 PROMPT PAYMENT AND CONTRACT CONDITIONS**

C.3.1 Pursuant to ORS 279C.570 and as a condition to the City's performance hereunder, the Contractor shall:

C.3.1.1 Make payment promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the Work provided for in this Contract.

C.3.1.2 Pay all contributions or amounts due the State Industrial Accident Fund and the State Unemployment Compensation Trust Fund from such Contractor or Subcontractor incurred in the performance of the Contract.

C.3.1.3 Not permit any lien or claim to be filed or prosecuted against the City on account of any labor or material furnished.

C.3.1.4 Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

C.3.1.5 Demonstrate that an employee drug testing program is in place as follows:

Contractor represents and warrants that Contractor has in place at the time of the execution of this Contract, and shall maintain during the term of this Contract, an Employee Drug Testing Program for its employees.

C.3.2 Pursuant to ORS 279C.515, and as a condition to City of Hillsboro's performance hereunder

C.3.2.1 If Contractor fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the Contractor or a Subcontractor by any person in connection with the Project as such claim becomes due, the proper officer(s) representing the City may pay the claim and charge the amount of the payment against funds due or to become due Contractor under this Contract. Payment of claims in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to any unpaid claims.

C.3.2.2 If the Contractor or a first-tier Subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the public contract for a public improvement within 30 days after receipt of payment from the public contracting agency or a Contractor, the Contractor or first-tier Subcontractor shall owe the person the amount due plus interest charges commencing at the end of the 10-day period that payment is due under ORS 279C.580(3) and ending upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest charged to the Contractor or first-tier Subcontractor on the amount due shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is 30 days after the date when payment was received from the public contracting agency or from the Contractor, but the rate of interest shall not exceed 30 percent. The amount of interest may not be waived.

C.3.2.3 If the Contractor or a Subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the public contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. Every contract related to this public contract shall contain a similar clause.

C.3.3 Pursuant to ORS 279C.580, Contractor shall include in each Subcontract for property or services entered into by the Contractor and a first-tier subcontractor, including a material supplier, for the purpose of performing a construction contract:

(a) A payment clause that obligates the Contractor to pay the first-tier Subcontractor for satisfactory performance under its subcontract within 10 days out of such amounts as are paid to the Contractor by the public contracting agency under such contract; and

(b) An interest penalty clause that obligates the Contractor if payment is not made within 30 days after receipt of payment from the public contracting agency, to pay to the first-tier Subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause included in the subcontract pursuant to paragraph (a) of this subsection. A Contractor or first-tier Subcontractor shall not be obligated to pay an interest penalty if the only reason that the contractor or first-tier subcontractor did not make payment when

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payment was due is that the Contractor or first-tier Subcontractor did not receive payment from the public contracting agency or Contractor when payment was due.

(c) The interest penalty shall be for the period beginning on the day after the required payment date and ending on the date on which payment of the amount due is made; and computed at the rate specified in ORS 279C.515(2)

(d) A clause which requires each of Contractor's Subcontractor's to include, in each of their contracts with lower-tier Subcontractors or suppliers, provisions to the effect that the first-tier Subcontractor shall pay its lower-tier Subcontractors and suppliers in accordance with the provisions of subsections (a) (b) and (c), above and requiring each of their Subcontractors and suppliers to include such clauses in their subcontracts and supply contracts.

C.3.4 All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its Subcontractors complies with these requirements.

### **C.4 PAYMENT FOR MEDICAL CARE**

Pursuant to ORS 279C.530, and as a condition to the City's performance hereunder, Contractor shall promptly, as due, make payment to any person, co-partnership, association or corporation furnishing medical, surgical, and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such Contractor all sums of which the Contractor agrees to pay for such services and all moneys and sums which the Contractor has collected or deducted from the wages of personnel pursuant to any law, contract or agreement for the purpose of providing or paying for such services.

### **C.5 HOURS OF LABOR**

As a condition to the City's performance hereunder, Contractor shall comply with ORS 279C.540, as amended from time to time and incorporated herein by this reference:

Pursuant to ORS 279C.540 and as a condition to the City's performance hereunder, no person shall be employed to perform Work under this Contract for more than 10 hours in any one day or forty hours in any one week, except in cases of necessity, emergency or where public policy absolutely requires it. In such instances, Contractor shall pay the employee at least time and a half pay:

- (a) For all overtime in excess of eight hours a day or 40 hours in any one week when the work week is five consecutive days, Monday through Friday; or
- (b) For all overtime in excess of 10 hours a day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and
- (c) For all Work performed on Saturday and on any legal holiday specified in ORS 279C.540.

This section C.5 will not apply to Contractor's Work under this Contract if Contractor is currently a party to a collective bargaining agreement with any labor organization.

This Section C.5 shall not excuse Contractor from completion of the Work within the time required under this Contract.

## SECTION D

### CHANGES IN THE WORK

#### **D.1 CHANGES IN WORK**

D.1.1 The terms of this Contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever, without prior written approval of the City's Authorized Representative.

D.1.2 It is mutually agreed that changes in Plans, quantities, or details of construction are inherent to the nature of construction and may be necessary or desirable during the course of construction. The City's Authorized Representative may at any time, without notice to the sureties, either increase or decrease the amount of Work to be performed under the Contract. Without impairing the Contract, the City reserves the right to require changes determined necessary or desirable to complete the proposed construction within the general scope of the Contract. These changes may include, but are not limited to:

- (a) Specifications and design.
- (b) Increases or decreases in quantities.
- (c) Additional Work.
- (d) Elimination of any Contract item.
- (e) Duration of Project.
- (f) Acceleration or delay in performance of Work.

D.1.3 The City and Contractor agree that changes shall be administered and negotiated according to the following:

Any Contract amendment including change orders, extra Work, field orders, or other changes in the Contract Documents which modifies the original Contract, may be made with the Contractor without competitive bidding subject to the following conditions:

The original Contract was let by competitive procurement, unit prices or solicitation alternates were provided that established the cost for additional Work, and a binding obligation exists on the parties covering the terms and conditions of the additional Work.

D.1.4 In the event there are any changes, including deductions or extra Work of a class not covered by the prices included in the Contract Documents, the basis of payments shall be agreed upon in writing between the Parties to the Contract before the Work is done. If basis for payment cannot be agreed upon prior to the beginning of the Work, and if so directed by the City's Authorized Representative, then Work shall be performed on the basis of furnishing direct labor, equipment, and material costs on all Work performed. In either case, in addition to Direct Costs, up to the following amounts may be added (or deducted if a reduction to work bid as a lump sum) to the Contractor's or Subcontractor's Direct Costs to cover overhead expenses for Work performed with their own forces:

Labor (prevailing wage rate)	15%
Equipment	12%
Materials	12%

When Work is performed by an authorized Subcontractor, the Contractor will be allowed a supplemental mark-up on each piece of subcontract Work covered by the change order up to the following:

\$0.00 - \$5,000.00.....	15%
Over \$5,000.00.....	7.5%



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These payments made to the Contractor will be complete compensation for Overhead, profit, and all other costs that were incurred by the Contractor or by other forces furnished by the Contractor, including Subcontractors. These payments apply to all change order Work. No other reimbursement, compensation, or payment will be made.

D.1.5 If any change under this section causes an increase or decrease in the Contractor's cost of, or the time required for the performance of any part of the Work under this Contract, the Contractor must submit a written statement setting forth the nature and specific extent of the claim, including all time and cost impacts against the Contract as soon as possible, but no later than five (5) days after receipt of any written notice of modification of the Contract. (Refer also to Section H. 1.4 for notification.)

D.1.6 No claim by the Contractor for additional costs shall be allowed if made after receipt of final payment application under this Contract.

D.1.7 All change order Work shall be executed under the conditions of the Contract Documents except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.

D.1.8 Deductive changes are those which reduce the scope of the Work. All deductive changes will be negotiated using the percentages for labor, equipment, material and Subcontractor's mark-ups in D. 1.4 which will reduce the price of the contract.

D.1.9 It is understood that changes in the Work are inherent to construction of this type. The number of changes, the scope of those changes, and the impact they have on the progress of the original Work cannot be defined at this time. The Contractor is notified that numerous changes are anticipated and that there will be no compensation made to the Contractor directly related to the number of changes. Each change will be evaluated for extension of Contract time and increase or decrease in compensation based on its own merit.

## D.2 DELAYS

D.2.1 If the Contractor is delayed by any actions of the City, City's Authorized Representative, or any other employee or agent of the City, or by separate contractor employed by the City, or by Force Majeure, **the Contractor shall submit a written notification of the delay to the City's Authorized Representative within two working days of the delay.** This notice shall state the cause of the potential delay, the Project components impacted by the delay, and the anticipated time extension necessary to compensate for the delay. Within seven days after the cause of the delay has been mitigated, or in no case more than 30 days after the initial notice, the Contractor shall submit to the City's Authorized Representative, a complete and detailed request for additional time resulting from the delay. The request shall be reviewed as described in Section D.3 Claims Review Process.

D.2.2 Avoidable delays include delays which could have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors, including, but not limited to, the following:

- (a) Delays which may in themselves be unavoidable but which affect only a portion of the Work and do not necessarily prevent or delay the prosecution of other parts of the Work nor the completion of the whole Work within the Contract time.
- (b) Delays which do not impact activities on the accepted critical path schedule.

- (c) Time associated with the reasonable interference of other contractors employed by the City which do not necessarily prevent the completion of the whole Work within the Contract time.

D.2.3 Unavoidable delays include those which result from causes beyond the control of the Contractor and which could not have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors. Delays caused by Force Majeure, war, public enemy, freight embargoes, and strikes which occur despite the Contractor's reasonable efforts to avoid them, shall be considered as unavoidable.

D.2.4 The City may grant a time extension for avoidable or unavoidable delay if the City deems it is in its best interest. Except as otherwise provided in ORS 279C.315, time extensions for avoidable or unavoidable delays shall not be compensable. Only delays within the reasonable control of the City shall be compensable.

D.2.5 Claims by the Contractor based on adverse weather conditions must be substantiated by documentation that weather conditions were abnormal for the specific time period claimed, could not have been anticipated by the Contractor, and adversely impacted the Project. A rain, windstorm, high water, or other natural phenomenon for the specific locality of the Work, which might reasonably have been anticipated from the previous ten (10) years historical records of the general locality of the Work, shall not be construed as abnormal. It is hereby agreed that rainfall greater than the following cannot be reasonably anticipated:

- (a) Daily rainfall equal to, or greater than, 0.50 inch during a month when the monthly rainfall exceeds the normal monthly average by twenty-five percent (25%) or more.
- (b) Daily rainfall equal to, or greater than, 0.75 inch at any time.
- (c) The Office of the Environmental Data Service of the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce nearest the Project site shall be considered the official agency of record for weather information.

D.2.6 If the Contractor discovers site conditions which differ materially from what was represented in the Contract Documents or from conditions that would normally be expected to exist and be inherent to the construction activities defined in the Contract Documents, the Contractor shall notify the City's Authorized Representative immediately and before the area has been disturbed. The City's Authorized Representative will investigate the area and make a determination as to whether or not the conditions differ materially from either the conditions stated in the Contract Documents or those which could reasonably be expected in execution of this particular Contract. If it is determined that a differing site condition exists, any compensation or credit will be determined based on Section D. 1, Changes. If the Contractor does not concur with the decision of the City's Authorized Representative and/or believes that it is entitled to additional compensation, the Contractor may proceed to file a claim.

## D.3 CLAIMS REVIEW PROCESS

D.3.1 All Contractor claims shall be referred to the City's Authorized Representative for review. All claims shall be made in writing to the City's Authorized Representative not more than five (5) days from the date of the occurrence of the event which gives rise to the claim or not more than five (5) days from the date that the Contractor knew or should

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have known of the problem. Unless the claim is made in accordance with these time requirements, it shall be waived.

D.3.2 All claims shall be submitted in writing and shall include a detailed, factual statement of the basis of the claim, pertinent dates, Contract provisions which support or allow the claim, reference to or copies of any documents which support the claim, the exact dollar value of the claim, and specific time extension requested for the claim. If the claim involves Work to be completed by Subcontractors, the Contractor will analyze and evaluate the merits of the Subcontractor claim. The claim, analysis and evaluation will then be forwarded to the City's Authorized Representative. The City's Authorized Representative and the City will not consider direct claims from Subcontractors, suppliers, manufacturers, or others not a party to this Contract.

D.3.3 The City's Authorized Representative will review all claims and take one or more of the following preliminary actions within ten days of receipt of a claim: (1) request additional supporting information from the Contractor; (2) inform the Contractor and City in writing of the time required for adequate review and response; (3) reject the claim in whole or in part and identify the reasons for rejection; (4) recommend approval of all or part of the claim; or (5) propose an alternate resolution.

D.3.4 The City's Authorized Representative's decision shall be final and binding on the Contractor unless appealed by written notice to the City within five (5) days of receipt of the decision. The Contractor must present written documentation supporting the claim within five (5) days of the notice of appeal. After receiving the appeal documentation, the City shall review the materials and render a decision within 30 days after receiving the appeal documents.

D.3.5 The decision of the City shall be final and binding unless the Contractor requests mediation within fifteen days of receipt of the City's decision. Both the City and the Contractor are obligated to participate in the mediation process prior to either or both proceeding to litigation. The mediation process is non-binding.

D.3.6 Should the parties arrive at an impasse regarding any claims or disputed claims, it is agreed that the parties shall submit to mediation prior to the commencement of litigation. The mediator shall be an individual mutually acceptable to both parties, but in the absence of agreement each party shall select a temporary mediator and the temporary mediators shall jointly select the permanent mediator. Each party will pay its own costs for the time and effort involved in mediation. The cost of the mediator shall be split equally between the two parties. Both parties agree to exercise their best effort in good faith to resolve all disputes in mediation. Participation in mediation is a mandatory requirement of both the City and the Contractor. The schedule and time allowed for mediation will be mutually acceptable. The parties agree to comply with City's administrative rules governing the confidentiality of mediation, if any, and shall execute all necessary documents to give effect to such confidentiality rules.

D.3.7 Regardless of the review period or the final decision of the City's Authorized Representative, the Contractor shall continue to diligently pursue the Work as identified in the Contract Documents. In no case is the Contractor justified or allowed to cease Work without a written stop work order from the City or City's Authorized Representative.

## SECTION E

### PAYMENTS

#### E.1 SCHEDULE OF VALUES

The Contractor shall submit, at least ten days prior to submission of its first application for progress payment, a schedule of values ("Schedule of Values") for the contracted Work. This schedule will provide a breakdown of values for the contracted Work and will be the basis for progress payments. The breakdown will demonstrate reasonable, identifiable, and measurable components of the Work. Unless objected to by the City's Authorized Representative, this schedule shall be used as the basis for reviewing Contractor's applications for payment.

#### E.2 APPLICATIONS FOR PAYMENT

E.2.1 City shall make progress payments on the Contract monthly as Work progresses. Payments shall be based upon estimates of Work completed and the Schedule of Values. All payments shall be approved by the City's Authorized Representative. A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein. City shall pay to Contractor interest on the progress payment, not including retainage, due the Contractor. The interest shall commence 30 days after the receipt of invoice from the Contractor or 15 days after the payment is approved by the City's Authorized Representative, whichever is the earlier date. The rate of interest shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is 30 days after receipt of the invoice from the Contractor or 15 days after the payment is approved by the City, whichever is the earlier date, but the rate of interest shall not exceed 30 percent. Notwithstanding the foregoing, in instances when an application for payment is filled out incorrectly, or when there is any defect or impropriety in any submitted application or when there is a good faith dispute, City shall so notify the Contractor within 15 days stating the reason or reasons the application for payment is defective or improper or the reasons for the dispute. A defective or improper application for payment, if corrected by the Contractor within seven days of being notified by the City, shall not cause a payment to be made later than specified in this section unless interest is also paid. Payment of interest will be postponed when payment on the principal is delayed because of disagreement between the City and the Contractor.

E.2.2 Contractor shall submit an application for each payment to the City's Authorized Representative and, if required, receipts or other vouchers showing payments for materials and labor including payments to Subcontractors. The Contractor's application for payment shall include a schedule of the percentages of the various parts of the Work completed, based on the Schedule of Values, which shall aggregate to the payment application total, and shall include, on the face of each copy thereof, a certificate in substantially the following form:

"I, the undersigned, hereby certify that the above bill is true and correct, and the payment therefore, has not been received.

Signed: \_\_\_\_\_

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E.2.3 Generally, request for payment will be accepted only for materials that have been installed or have been delivered to the job site and are secured from damage or theft. Under special conditions, payment requests for stored materials that are off-site will be accepted only at the City's sole discretion and only if all the following conditions are met:

- (a) The request for stored material shall be submitted at least 30 days in advance of the Application for Payment on which it appears. Requests for payment shall be entertained for major equipment, components or expenditures only.
- (b) The Contractor shall submit paid invoices showing the quantity and cost of the material stored with the application for payment that is to pay for the materials.
- (c) The material shall be stored in a bonded warehouse and City's Authorized Representative shall be granted the right to access the material for the purpose of removal or inspection at any time during the Contract Period.
- (d) The Contractor shall name the City as co-insured on the insurance policy covering the full value of the property while in the care and custody of the Contractor until it is installed. A certificate noting this coverage shall be issued to the City.
- (e) Payments shall be made for material only. The submitted invoice amount shall be reduced by the cost of transportation and for the cost of an inspector to check the delivery at out of town storage sites. The cost of said inspection shall be born solely by the Contractor.
- (f) Payment for stored materials shall in no way indicate acceptance of the materials or waive any rights under this Contract for the rejection of the Work or materials not in conformance with the Contract Documents.
- (g) All required documentation must be submitted with the respective Application for Payment.

E.2.4 The City reserves the right to withhold payment for Work which has been demonstrated or identified as failing to conform to the Contract Documents.

### **E.3 PAYROLL CERTIFICATION REQUIREMENT**

E.3.1 Payroll certification is required before payments are made on the Contract. Refer to Section C.2 for this information.

### **E.4 DUAL PAYMENT**

Contractor shall not be compensated for Work performed under this Contract from any City Department other than the City Department which is a party to this Contract.

### **E.5 RETAINAGE**

E.5.1 Retainage shall be withheld and released in accordance with ORS 279C.550 to 279C.580:

E.5.1.1 City may reserve as retainage from any progress payment an amount not to exceed five percent of the payment. As Work progresses, City may reduce the amount of the retainage and may eliminate retainage on any remaining monthly Contract payments after 50 percent of the Work under the Contract is completed, if, in the City's opinion, such Work is progressing satisfactorily. Elimination or reduction of retainage shall be allowed only upon written application by the Contractor, which application shall include written approval of Contractor's surety; except that when the

Work is 97-1/2 percent completed the City may, at its discretion and without application by the Contractor, reduce the retained amount to 100 percent of the value of the Work remaining to be done. Upon receipt of written application by the Contractor, City shall respond in writing within a reasonable time.

E.5.1.2 In accordance with the provisions of ORS 279C.560, ORS 279C.570 and OAR 137-049-0820, Contractor may request in writing:

- (a) to be paid amounts which would otherwise have been retained from progress payments where Contractor has deposited acceptable bonds and securities of equal value with City or in an escrow account, satisfactory to City, with an approved bank or trust company to be held in lieu of the cash retainage for the benefit of City;
- (b) that retainage be deposited in an interest bearing account, established through the City's Treasurer, in a bank, savings bank, trust company or savings association for the benefit of City, with earnings from such account accruing to the Contractor; or
- (c) that the City allow Contractor to deposit a surety bond for the benefit of City, in a form acceptable to City, in lieu of all or a portion of funds retained, or to be retained. Such bond and any proceeds therefrom shall be made subject to all claims and liens in the manner and priority as set forth for retainage under ORS 279C.550 to ORS 279C.580.

Where the City has agreed to the Contractor's election of option (a) or (b), City may recover from Contractor any additional costs incurred through such election by reducing Contractor's final payment. Where the City has agreed to Contractor's election of option (c), Contractor shall accept like bonds from Subcontractors and suppliers on the Project.

E. 5.1.3 The retainage held by City shall be included in and paid to the Contractor as part of the final payment of the Contract Price. The City shall pay to Contractor interest at the rate of one and one-half percent per month on the final payment due Contractor, interest to commence thirty (30) days after the Work under the Contract has been completed and accepted and to run until the date when final payment is tendered to Contractor. The Contractor shall notify City in writing when the Contractor considers the Work complete and City shall, within fifteen (15) days after receiving the written notice, either accept the Work or notify the Contractor of Work yet to be performed on the Contract. If City does not within the time allowed notify the Contractor of Work yet to be performed to fulfill contractual obligations, the interest provided by this subsection shall commence to run thirty (30) days after the end of the 15-day period.

E.5.1.4 In accordance with the provisions of ORS 279C.560(6), The City shall reduce the amount of the retainage if the Contractor notifies the controller of the City that the Contractor has deposited in a bank or trust company, in a manner authorized by the City's Authorized Representative, bonds and securities of equal value of a kind approved by the City's Authorized Representative.

### **E.6 FINAL PAYMENT**

Upon completion of all the Work under this Contract, the Contractor shall notify the City's Authorized Representative, in writing, that Contractor has completed Contractor's part of the Contract and shall request final payment. Upon receipt of such notice the City's Authorized Representative will inspect the Work, and if acceptable, submit to the City a recommendation as to acceptance of the completed Work and as to the final estimate of the amount

## **Part IV**

due the Contractor. If the Work is not acceptable, City will notify Contractor within fifteen (15) Days of Contractor's request for final payment. Upon approval of this final estimate by the City and compliance by the Contractor with provisions in Section K. 3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS, and other provisions as may be applicable, the City shall pay to the Contractor all monies due Contractor under the provisions of these Contract Documents.

### **SECTION F**

#### **JOB SITE CONDITIONS**

##### **F.1 USE OF PREMISES**

Contractor shall confine equipment, storage of materials and operation of Work to the limits indicated by Contract Documents, law, ordinances, permits or directions of the City's Authorized Representative. Contractor shall follow the City's Authorized Representative's instructions regarding use of premises, if any.

##### **F.2 PROTECTION OF WORKERS, PROPERTY AND THE PUBLIC**

F.2.1 Contractor shall maintain continuous and adequate protection of all of the Work from damage, and shall protect the City's Authorized Representative, City's workers and property from injury or loss arising in connection with this Contract. Contractor shall remedy acceptably to the City, any damage, injury, or loss, except such as may be directly due to errors in the Contract Documents or caused by authorized representatives or personnel of the City. Contractor shall adequately protect adjacent property as provided by law and the Contract Documents.

F.2.2 Contractor shall take all necessary precautions for the safety of all personnel on the job site, and shall comply with the Contract Documents and all applicable provisions of federal, state and municipal safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and progress of the Work, all necessary safeguards for protection of workers and the public against any hazards created by construction. Contractor shall designate a responsible employee or associate on the Work site, whose duty shall be the prevention of accidents. The name and position of the person designated shall be reported to the City's Authorized Representative. The City's Authorized Representative has no responsibility for Work site safety. Work site safety is the responsibility of the Contractor.

F.2.3 Contractor shall not enter upon private property without first obtaining permission from the property owner or its duly authorized representative. Contractor shall be responsible for the preservation of all public and private property along and adjacent to the Work contemplated under the Contract and shall use every precaution necessary to prevent damage thereto. In the event the Contractor damages any property, the Contractor shall at once notify the property owner and make, or arrange to make, full restitution. Contractor shall report, immediately in writing, to the City's Authorized Representative, all pertinent facts relating to such property damage and the ultimate disposition of the claim for damage.

F.2.4 Contractor is responsible for protection of adjacent work areas including impacts brought about by activities, equipment, labor, utilities, and materials on the site.

F.2.5 Contractor shall at all times direct its activities in such a manner as to minimize adverse effects to the

environment. Handling of all materials will be conducted so no release will occur that may pollute or become hazardous.

F.2.6 In an emergency affecting the safety of life or of the Work or of adjoining property, the Contractor, without special instruction or authorization from the City's Authorized Representative, shall act reasonably to prevent threatened loss or injury, and shall so act, without appeal, if instructed by the City's Authorized Representative. Any compensation claimed by the Contractor on account of emergency work shall be determined in accordance with section D.

##### **F.3 CUTTING AND PATCHING**

F.3.1 Contractor shall be responsible for coordinating all cutting, fitting, or patching of the Work to make its several parts come together properly and fit to receive or be received by work of other contractors or Subcontractors shown upon, or reasonably implied by, the Contract Documents.

F.3.2 Contractor shall be responsible for restoring all cut, fitted, or patched surfaces to an original condition; provided, however, that if a different condition is specified in the Contract Documents, then Contractor shall be responsible for restoring such surfaces to the condition specified in the Contract Documents.

##### **F.4 CLEANING UP**

From time to time as may be ordered by the City and, in any event, immediately after completion of the Work, the Contractor shall, at his own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. If Contractor fails to do so within twenty-four hours after notification by the City the work may be done by others and the cost charged to the Contractor and deducted from payment due the Contractor.

##### **F.5 ENVIRONMENTAL CONTAMINATION**

F.5.1 Contractor will be held responsible for any and all spills, releases, discharge or leaks of environmental pollution during performance of the Contract which occur as a result of, or are contributed by, actions of its agent, personnel, or subcontractors. Contractor agrees to promptly dispose of such spills, releases, discharge or leaks to the satisfaction of the City and proper regulatory agencies in a manner that complies with applicable federal, state, and local laws and regulations. Cleanup shall be at no cost to the City and be performed by properly qualified personnel.

F.5.1.1 Contractor shall obtain the City's written consent prior to bringing onto the Work site any (i) environmental pollutants or (ii) hazardous substances or materials, as the same or reasonably similar terms are used in any applicable federal, state, or local statutes, rules or ordinances. Notwithstanding such written consent from the City, the Contractor, at all times, shall:

(a) properly handle, use and dispose or all environmental pollutants and hazardous substances or materials brought onto the Work site, in accordance with all applicable federal, state, or local statutes, rules, or ordinances;

(b) be responsible for any and all spills, releases, discharges, or leaks of (or from) environmental pollutants or hazardous substances or materials which Contractor has brought onto the Work site; and

(c) promptly clean up, without cost to the City, such spills, releases, discharges, or leaks to the City's satisfaction and in compliance with all applicable federal, state, or local statutes, rules or ordinances.

## Part IV

F.5.1.2 Contractor shall be liable for any and all costs, expenses, damages, claims, and causes of action, or any of them, related to or arising out of a spill, release, discharge, or leak of (or from) any environmental pollutant or hazardous substance or material, to the extent such spill, release, discharge, or leak was caused or contributed to by Contractor's (i) negligence or (ii) failure to perform in accordance with the Contract Documents. Nothing in this section F.5.1.2 shall limit Contractor's liability or responsibility under Section G.2. 1. I of this Contract.

F.5.2 Contractor shall report all reportable quantity releases to applicable federal, state, and local regulatory and emergency response agencies. Reportable quantities are found in 40 CFR Part 302, Table 302.4 for hazardous substances and in OAR Chapter 340 Division 108 for all products addressed therein. Upon discovery, regardless of quantity, Contractor must telephonically report all releases to the City. A written follow-up report shall be submitted to City within 48 hours of the telephonic report. Such written report shall contain, as a minimum:

- (a) Description of items released (identity, quantity, manifest no., and all other documentation required by law.)
- (b) Whether amount of items released is EPA/DEQ reportable, and, if so, when it was reported.
- (c) Exact time and location of release, including a description of the area involved.
- (d) Containment procedures initiated.
- (e) Summary of communications about the release Contractor has had with members of the press or State officials other than City.
- (f) Description of cleanup procedures employed or to be employed at the site, including disposal location of spill residue.
- (g) Personnel injuries, if any, resulting from, or aggravated by, the release.

### F.6 ENVIRONMENTAL CLEAN-UP

F.6.1 Unless disposition of environmental pollution is specifically a part of this Contract, or was caused by the Contractor (reference F.5 Environmental Contamination), Contractor shall immediately notify City of any hazardous substance(s) which Contractor discovers or encounters during performance of the Work required by this Contract. "Hazardous substance(s)" are those substances, materials or wastes regulated in 40 CFR, Part 261 and defined as hazardous in 40 CFR S 261.3. In addition to notifying City of any hazardous substance(s) discovered or encountered, Contractor shall immediately cease working in any particular area of the Project where a hazardous substance(s) has been discovered or encountered if continued work in such area would present a risk or danger to the health or well being of Contractor's or any Subcontractor's work force.

F.6.2 Upon being notified by Contractor of the presence of hazardous substance(s) on the Project site, City shall arrange for the proper disposition of such hazardous substance(s).

### F.7 FORCE MAJEURE

F.7.1 Neither party to this Contract shall be held responsible for delay or default caused by fire, riot, acts of God, sovereign, or public enemy, strikes, freight embargoes and/or war which is beyond that party's control. The City may terminate this Contract upon written notice after

determining such delay or default will reasonably prevent successful performance of the Contract.

F.7.2 In the event Force Majeure impacts this Project, the City may grant a reasonable extension of time, and there shall be no additional compensation paid to the Contractor.

## SECTION G

### BONDING AND INSURANCE

#### G.1 PERFORMANCE AND PAYMENT SECURITY

G.1.1 In accordance with ORS 279C.380 and OAR 137-049-0460 a 100% Performance Bond and a 100% Payment Bond is required for all Public Improvement contracts, which the Contractor shall furnish and maintain in effect at all times during the Contract Period, when the contract amount exceeds \$50,000 (HMC 2.56.100(C)).

G.1.2 ***A 100% performance bond form and a 100% payment bond*** form furnished by ***the City of Hillsboro and notarized by awarded Contractor's*** surety company authorized to do business in Oregon is the only acceptable form of ***performance bond and payment bond*** security, except as provided for in ORS 279C.380(1)(a).

#### G.2 WARRANTY BOND

G.2.1 When the contract amount exceeds \$50,000 the Invitation to Bid (ITB) may require the Contractor to obtain warranty security at the Contractor's own expense (HMC 2.56.100) before the final payment of the contract is issued. The warranty security furnished by the Contractor for the work performed may be up to twenty-five percent (25%) of the original amount of the contract to guarantee replacement and repair of the public improvements as described in the contract for a period of one year or such other period as specified in the ITB, following the issuance of the written Notice of Substantial Completion.

G.2.2 The warranty bond form furnished by the City and notarized by the awarded Contractor's surety company authorized to do business in Oregon is the only acceptable form of warranty security.

#### G.3 INSURANCE AND INDEMNIFICATION

G.3.1 Responsibility For Damages/ Hold Harmless:

G.3.1.1 Contractor shall indemnify, defend, save and hold harmless the City of Hillsboro, its elected and appointed officials, officers, agents, employees and volunteers against all liability, claims, suits or actions of whatsoever nature, loss or expenses, including attorney fees, and against all claims, actions, judgments based upon or arising out of damage or injury or death to persons or property, but only to the extent caused by a negligent act or omission by the Contractor and anyone acting on Contractor's behalf in connection with, or incidental to, this Contract or the work to be performed hereunder; provided, however, that nothing herewith shall be construed to require indemnification of City attributable to its own negligence. In addition, Contractor expressly agrees to defend, indemnify and hold the City of Hillsboro, its elected and appointed officials, officers, agents, employees and volunteers against all liability, claims, suits, actions, loss or expenses, including attorney fees, arising out of or related to any claims that the Work, the Work Product, or any other tangible or intangible items delivered to City by Contractor may be the subject of protection under any state or federal intellectual property law or doctrine, or the City's use thereof, infringes any patent, copyright, trade secret, trademark, trade dress, mask work, utility design or other proprietary right of any third party.

## Part IV

G.3.2 Primary Coverage: Insurance carried by Contractor under this Contract shall be the primary coverage, and the City's insurance is excess and solely for damages or losses for which the City is responsible. The coverage's indicated are minimums unless otherwise specified in the Contract Documents.

G.3.3 Workers' Compensation: All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. This shall include Employer's Liability Insurance with coverage limits of not less than \$100,000 for each accident. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage if the Contractor certifies so in writing. Contractor shall ensure that each of its Subcontractors complies with these requirements. The Contractor shall require proof of such Workers' Compensation by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the Contractor or its Subcontractors.

### G.4 BUILDER'S RISK INSURANCE

G.4.1 Builder's Risk:(For new construction or building additions) During the term of this Contract, the Contractor shall maintain in force, at its own expense, Builder's Risk insurance on an all risk form, including earthquake and flood, for an amount equal to the full amount of the Contract. Any deductible shall not exceed \$50,000 for each loss, except the earthquake and flood deductible shall not exceed 2 percent of each loss or \$50,000, whichever is more. The policy will include as loss payees the City, the Contractor and its Subcontractors as their interests may appear.

G.4.2 Builder's Risk Installation Floater: (For other than new construction) The Contractor shall obtain, at the Contractor's expense, and keep in effect during the term of this Contract, a Builder's Risk Installation Floater for coverage of the Contractor's labor, materials and equipment to be used for completion of the Work performed under this Contract. The minimum amount of coverage to be carried shall be equal to the full amount of the Contract. This insurance shall include as loss payees the City, the Contractor and its Subcontractors as their interests may appear.

G.4.3 Such insurance shall be maintained until the City has occupied the facility.

G.4.4 A loss insured under the Builder's Risk insurance shall be adjusted by the City and made payable to the City for the insureds, as their interests may appear. The contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner. The City shall have power to adjust and settle a loss with insurers.

### G.5 LIABILITY INSURANCE

G.5.1 Contractor shall obtain prior to beginning any work under this Contract and shall maintain in full force and effect for the term of this Contract, at Contractor's expense, **comprehensive general liability** to include bodily injury and property damage for at least \$1,000,000 per occurrence and at least \$2,000,000 aggregate per project. **Automobile liability** with a combined single limit coverage of not less than \$1,000,000 to include bodily injury and property damage and shall include coverage for owned, hired and non-owned vehicles, as applicable, for the protection of the Contractor and the City of Hillsboro. Contractor shall name

the City of Hillsboro, its elected and appointed officials, officers, agents, employees and volunteers as additional insureds. The policies shall be primary to and non-contributory with any insurance or self-insurance carried by the City, issued by a company authorized to do business in the State of Oregon. **The Contractor shall provide the City written notice within thirty (30) days of cancellation or material modification of the insurance contract at the address listed below.** Contractor shall provide certificates of insurance and **additional insured policy endorsement** to City prior to commencement of any work under this Contract. If requested, complete copies of insurance policies shall be provided to City. Contractor shall be financially responsible for all pertinent deductibles, self-insured retentions and/or self-insurance used to satisfy these requirements.

G.5.2 "Tail" Coverage: If any of the required liability insurance is arranged on a "claims made" basis, "tail" coverage will be required at the completion of this Contract for a duration of 24 months or the maximum time period the Contractor's insurer will provide such if less than 24 months. Contractor will be responsible for furnishing certification of "tail" coverage as described or continuous "claims made" liability coverage for 24 months following Final Completion. Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage provided its retroactive date is on or before the effective date of this Contract. This will be a condition of the Final Acceptance of Work or Services and Related Warranty (if any).

G.5.3 If Contractor cannot obtain an insurer to name the City of Hillsboro, its elected and appointed officials, officers, agents, employees and volunteers as Additional Insureds, Contractor shall obtain at Contractor's expense, and keep in effect during the term of this Contract, City's and Contractors Protective Liability Insurance, naming the City of Hillsboro, its selected and appointed officials, officers, agents employees and volunteers as Named Insureds with not less than a \$1 million limit per occurrence. This policy must be kept in effect for 24 months following Final Completion. As evidence of coverage, Contractor shall furnish the actual policy to City prior to its issuance of a Notice to Proceed.

G.5.4 Notice of Cancellation or Change: There shall be no cancellation, material change, potential exhaustion of aggregate limits or intent not to renew insurance coverages without written notice from the Contractor or its insurer(s) to the City. Any failure to comply with the reporting provisions of this insurance, except for the potential exhaustion of aggregate limits, shall not affect the coverages provided to the City of Hillsboro, its elected and appointed officials, officers, agents employees and volunteers.

G.5.5 Certificate(s) of Insurance: As evidence of the insurance coverage required by this Contract, the Contractor shall furnish Certificate(s) of Insurance to the City prior to its issuance of a Notice to Proceed. The Certificate(s) will specify all of the parties who are Additional Insureds or Loss Payees. Insurance coverage required under this Contract shall be obtained from acceptable insurance companies or entities authorized to do business in Oregon. Contractor shall cause the insurer to strike out the clause "endeavor to send notice of cancellation" where such or a similar clause appears in any certificate. The Contractor shall be financially responsible for all deductibles, self-insured retentions and/or self-insurance included hereunder. Any deductible, self-insured retention and/or self-insurance in excess of \$50,000 shall be disclosed to the City in writing prior to issuance of a Notice to Proceed and is subject to City's approval.

## **Part IV**

G.5.6 Should any such insurance policy contain an annual aggregate limit of liability then the certificate shall be issued with a Separation of Aggregate Limits Endorsement with respect to the City of Hillsboro's interests.

### **SECTION H**

#### **SCHEDULE OF WORK**

##### **H.1 CONTRACT PERIOD**

H.1.1 Time is of the essence on this Contract. The Contractor shall at all times carry on the Work diligently, without delay and punctually fulfill all requirements herein. Contractor shall commence Work on the site within 15 days of Notice to Proceed, unless directed otherwise.

H.1.2 Unless specifically extended by Change Order, all Work shall be complete by the date contained in the Contract Documents.

H.1.3 The City shall not waive any rights under the Contract by permitting the Contractor to continue or complete the Work or any part of it after the date described in H.1.2 above.

H.1.4 Any claim for additional time shall be based on written notice stating the general nature of the request, delivered to the City's Authorized Representative, in accordance with D. 2. 1. As a part of this notice, the Contractor shall provide an estimate of the probable effect of such delay on the progress of the Work and Final Completion of the Project. Failure to submit a suitable notice within the specified time period will result in the Contractor waiving this right to request additional time for that delay cause. This does not abrogate Section D. 1.5.

##### **H.2 SCHEDULE**

H.2.1 Contractor shall provide, by or before the pre-construction conference, a detailed schedule for review and acceptance by the City. The submitted schedule must illustrate Work by significant Project components, significant labor trades, long lead items, broken down by building and/or floor where applicable. Each schedule item shall account for no greater than 5 % of the monetary value of the Project or 5 % of the available time. Schedules with activities of less than one day or valued at less than 1% of the Contract will be considered too detailed and will not be accepted. Schedules lacking adequate detail, or unreasonably detailed, will be rejected. Included within the schedule are the following: Notice to Proceed, Substantial Completion, and Final Completion. Schedules will be updated monthly and submitted with the monthly payment application. Acceptance of the Schedule by the City does not constitute agreement by the City, as to the Contractor's sequencing, means, methods, or durations. Any positive difference between the Contractor's scheduled completion and the Contract completion date is float owned by the Project. Use of the float will be negotiated. In no case shall the Contractor make a claim for delays if the Work is completed within the Contract time but after Contractor's scheduled completion.

##### **H.3 PARTIAL OCCUPANCY OR USE**

H.3.1 The City may occupy or use any completed or partially completed portion of the Work at any stage, provided such occupancy or use is consented to by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the City and Contractor have reasonably accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, insurance or self-insurance, maintenance, heat,

utilities, and damage to the Work, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents with respect to such portion of the Work. Approval by the Contractor to partial occupancy or use shall not be unreasonably withheld. Immediately prior to such partial occupancy or use, the City and Contractor shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work. Partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

### **.SECTION I**

#### **CORRECTION OF WORK**

##### **I.1 CORRECTION OF WORK BEFORE FINAL PAYMENT**

Work failing to conform to the Contract Documents shall be deemed defective. Contractor shall promptly remove from the premises and replace, all defective materials as determined by the City's Authorized Representative as failing to conform to the Contract Documents, whether incorporated in the Work or not. Removal and replacement shall be without loss or expense to the City, and Contractor shall bear the cost of repairing all Work destroyed or damaged by such removal or replacement.

##### **I.2 WARRANTY WORK**

I.2.1 Neither the final certificate of payment nor any provision of the Contract Documents shall relieve the Contractor from responsibility for defective Work and, unless otherwise specified, Contractor shall correct any defects that appear in the Work within a period of one year from the date of issuance of the written Notice of Substantial Completion by the City except for latent defects which will be remedied by the Contractor at any time they become apparent. The City shall give Contractor notice of defects with reasonable promptness. Contractor shall perform such warranty work within a reasonable time after City's demand. If Contractor fails to complete the warranty work within such period as City determines reasonable, or at any time in the event of warranty work consisting of emergency repairs, without affecting Contractor's obligations, City may perform such work and Contractor shall reimburse City all costs of the same within ten (10) Days after demand.

I.2.2 This provision does not negate guarantees or warranties for periods longer than one year including without limitation such guarantees or warranties required by other sections of the Contract Documents for specific installations, materials, processes, equipment or fixtures.

I.2.3 In addition to Contractor's warranty, manufacturer's warranties shall pass to the City and shall not take effect until affected Work has been accepted in writing by the City's Authorized Representative.

I.2.4 The one-year period for correction of Work shall be extended with respect to portions of Work performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work, and shall be extended by corrective Work performed by the Contractor pursuant to this Section, as to the Work corrected. The Contractor shall remove from the site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the City.

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I.2.5 Nothing contained in this Section I.2 shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract Documents. Establishment of the period for correction of Work as described in this Section I.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

I.2.6 If the City prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the City may do so instead of requiring its removal and correction, in which case the Contract Price will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

## **SECTION J**

### **SUSPENSION AND/OR TERMINATION OF THE WORK**

#### **J.1 THE CITY'S RIGHT TO SUSPEND THE WORK**

J.1.1 The City and/or the City's Authorized Representative has the authority to suspend portions or all of the Work due to causes including, but not limited to:

- (a) Failure of the Contractor to correct unsafe conditions;
- (b) Failure of the Contractor to carry out any provision of the Contract;
- (c) Failure of the Contractor to carry out orders;
- (d) Conditions, in the opinion of the City's Authorized Representative, which are unsuitable for performing the Work;
- (e) Time required to investigate differing site conditions;
- (f) Any reason considered to be in the public interest.

J.1.2 Contractor and the Contractor's Surety shall be notified in writing of the effective date and time of the suspension and shall be notified in writing to resume Work.

#### **J.2 CONTRACTOR'S RESPONSIBILITIES**

J.2.1 During the period of the suspension, Contractor is responsible to continue maintenance at the Project just as if the Work were in progress. This includes, but is not limited to, protection of completed Work, maintenance of access, protection of stored materials, temporary facilities, and clean-up.

J.2.2 When the Work is recommenced after the suspension, the Contractor shall replace or renew any Work damaged during the suspension, remove any materials or facilities used as part of temporary maintenance, and complete the Project in every respect as though its prosecution had been continuous and without suspension.

#### **J.3 COMPENSATION FOR SUSPENSION**

J.3.1 Depending on the reason for suspension of the Work, the Contractor or the City may be due compensation by the other party. If it was a Contractor caused suspension, the City may assess the Contractor actual costs of the suspension in terms of administration, remedial work by the City's forces or another contractor to correct the problem associated with the suspension, rent of temporary facilities, and other actual costs related to the suspension. If the suspension was caused by the City, the Contractor shall be due compensation which shall be defined using Section D,

Changes in the Work. If the suspension was required through no fault of the Contractor or the City, neither party owes the other for the impact.

#### **J.4 CITY'S RIGHT TO TERMINATE CONTRACT**

J.4.1 The City, after providing Contractor an opportunity for remedy, may, without prejudice to any other right or remedy and after giving Contractor three (3) days written notice, terminate the Contract under the conditions including but not limited to those listed below:

- (a) Failure of the Contractor to correct unsafe conditions;
- (b) Failure of the Contractor to carry out any provision of the Contract;
- (c) If Contractor should voluntarily or involuntarily, seek protection under the United States Bankruptcy Code and its Contractor as debtor-in-possession or Trustee for the estate fail to assume the Contract within a reasonable time;
- (d) If Contractor should make a general assignment for the benefit of Contractor's creditors;
- (e) If a receiver should be appointed on account of Contractor's insolvency;
- (f) If Contractor should repeatedly refuse or fail to supply an adequate number of skilled workers or proper materials to carry on the Work as required by the Contract Documents, or otherwise fail to perform the Work in a timely manner;
- (g) If Contractor should repeatedly fail to make prompt payment to Subcontractors or for material or labor, or should disregard laws, ordinances or the instructions of the City or its Authorized Representative; or
- (h) If Contractor is otherwise in material breach of any part of the Contract.

J.4.2 At any time that the above occurs, the City may take possession of the premises and of all materials and appliances and finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive further payment until the Work is completed. If the City's cost of finishing the Work exceeds the unpaid balance of the Contract Price, Contractor shall pay the difference to the City.

#### **J.5 TERMINATION FOR CONVENIENCE**

J.5.1 City may terminate the Contract in whole or in part whenever City determines that termination of the Contract is in the best interest of the public.

J.5.2 The City will provide the Contractor and the Contractor's surety seven (7) days prior written notice of a termination for public convenience. After such notice, the Contractor and the Contractor's surety shall provide the City with immediate and peaceful possession of the premises and materials located on and off the premises for which the Contractor received progress payment under Section E. Compensation for Work terminated by the City under this provision will be according to Section E. In no circumstance shall Contractor be entitled to lost profits for Work not performed due to termination.



## **Part IV**

### **J.6 ACTION UPON TERMINATION**

J.6.1 Upon receiving a Notice of Termination, and except as directed otherwise by the City, Contractor shall immediately cease placing further subcontracts or orders for materials, services, or facilities. In addition, Contractor shall terminate all subcontracts or orders to the extent they relate to the Work terminated and, with the prior written approval of the City, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts and orders.

J.6.2 As directed by the City, Contractor shall upon termination transfer title and deliver to the City all Project documents, information, and other property that, if the Contract had been completed, would be required to be furnished to the City relating to the Project.

## **SECTION K**

### **CONTRACT CLOSE OUT**

#### **K.1 RECORD DRAWINGS**

As a condition of final payment (refer also to section E.6), Contractor shall comply with the following: Contractor shall provide to the City's Authorized Representative the record drawings of the entire Project. Record drawings shall depict the Project as constructed and shall reflect each and every change, modification, and deletion made during the construction. Record drawings are part of the Work and shall be provided prior to the City's issuance of final payment. Record drawings include all modifications to the Contract Documents unless otherwise directed. Record Drawings shall be in the form of one, clean, full-sized plan set with any project alterations, as listed above, clearly and legibly made in red permanent ink.

#### **K.2 OPERATION AND MAINTENANCE MANUALS**

As part of the Work, Contractor shall submit two completed operation and maintenance manuals ("O & M Manual") for review by the City's Authorized Representative prior to submission of any pay request for more than 75% of the Work. No payments beyond 75% will be made by the City until the O&M Manuals have been received. The O & M Manuals shall contain a complete set of all submittals, all product data as required by the specifications, training information, phone list of consultants, manufacturers, installer and suppliers, manufacturer's printed data, record and shop drawings, schematic diagrams of systems, appropriate equipment indices, warranties and bonds. The City's Authorized Representative shall review and return one O & M Manual for any modifications or additions required. Prior to submission of its final pay request, five (5) complete and approved sets of O & M Manuals shall be delivered to the City's Authorized Representative by the Contractor.

#### **K.3 RELEASE OF LIENS AND CLAIMS**

As a condition of final payment, the Contractor shall submit to the City's Authorized Representative a notarized Release of Liens and Claims Form, which states that all Subcontractors and suppliers have been paid in full, all disputes with the City's property have been resolved, all obligations on the Project have been satisfied, all monetary claims and indebtedness have been paid, and that, to the best of the Contractor's knowledge, there are no claims of any kind outstanding against the Project. The Contractor shall indemnify, defend (with counsel of City's choice) and hold harmless the City from all claims for labor and materials finished under this Contract. The Contractor shall furnish complete and valid releases or waivers, satisfactory to the City, of all liens arising out of or filed in connection with the Work.

#### **K.4 COMPLETION NOTICES**

K.4.1 Contractor shall provide the City a written notice of both Substantial and Final Completion. The certificate of Substantial Completion shall state the date of Substantial Completion, the responsibilities of the City and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and the time within which the Contractor shall finish all items on the punchlist accompanying the Certificate. Both completion notices must be signed by the Contractor and by the City's Authorized Representative to be valid. The City shall provide the final signature on the notices. The notices shall take effect on the date they are signed by the City.

K.4.2 Substantial Completion of an operating facility with operating systems (e.g., mechanical, electrical, HVAC) shall be that degree of completion that has provided a minimum of 30 continuous days of successful, trouble-free operation, which period shall begin after all performance and acceptance testing has been successfully demonstrated to the City's Authorized Representative. All equipment contained in the Work, plus all other components necessary to enable the City to operate the facility in the manner that was intended, shall be complete on the Substantial Completion date. The Contractor may request that a punch list be prepared by the City's Authorized Representative with submission of the request for the Substantial Completion notice.

K.4.3 Final Completion shall be when all Work is complete in accordance with the Contract Documents.

#### **K.5 TRAINING**

As part of the Work, and prior to submission of the request for final payment, the Contractor shall schedule with the City's Authorized Representative, training sessions for all equipment and systems, as required in the individual specifications sections. Contractor shall schedule training sessions at least two weeks in advance of the date of training to allow City personnel adequate notice. The O & M Manual shall be used as a basis for training. Training shall be a formal session, held after the equipment and/or system is completely installed and operational in its normal operating environment.

#### **K.6 EXTRA MATERIALS**

As part of the Work, Contractor shall provide spare parts, extra maintenance materials, and other materials or products in the quantities specified in the specifications, prior to final payment. Delivery point for extra materials shall be designated by the City's Authorized Representative.

#### **K.7 ENVIRONMENTAL CLEAN-UP**

As part of the Final Completion Notice, or as a separate written notice submitted with or before the Notice of Final Completion, the Contractor shall notify the City that all environmental pollution clean-up which was performed as a part of this Contract has been disposed of in accordance with all applicable rules, regulations, laws, and statutes of all agencies having jurisdiction over such environmental pollution. The notice shall state that the Contractor shall indemnify, defend (with counsel of City's choice) and hold harmless the City from any claims resulting from the disposal of the environmental pollution including removal, encapsulation, transportation, handling, and storage.

## Part IV

### **K.8      CERTIFICATE OF OCCUPANCY**

The Contractor shall not be granted Final Completion or receive final payment if the City has not received an unconditioned Certificate of Occupancy from the appropriate building officials.

### **K.9      OTHER CONTRACTOR RESPONSIBILITIES**

The Contractor shall be responsible for returning to the City all items issued during construction such as keys, security passes, site admittance badges, and all other pertinent items. The Contractor shall be responsible for notifying the appropriate utility companies to transfer utility charges from the Contractor to the City. The utility transfer date shall not be before Substantial Completion and may not be until Final Completion, if the City does not take beneficial use of the facility and the Contractor's forces continue with the Work.

### **K.10    SURVIVAL**

All warranty and indemnification provisions of this Contract, and all of Contractor's other obligations under this Contract that are not fully performed by the time of Final Completion or termination, shall survive Final Completion or any termination of the Contract.

## **SECTION L**

### **LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

#### **L.1      LAWS TO BE OBSERVED**

In compliance with ORS 279C.525 the following is a list of federal, state and local agencies of which the City has knowledge that have enacted ordinances or regulations relating to environmental pollution and the preservation of natural resources that may affect the performance of the Contract:

#### **L.2      FEDERAL AGENCIES**

Agriculture, Department of  
Forest Service  
Soil Conservation Service  
Coast Guard  
Defense, Department of  
Army Corps of Engineers  
Energy, Department of  
Federal Energy Regulatory Commission  
Environmental Protection Agency  
Health and Human Services, Department of  
Housing and Urban Development, Department of  
Solar Energy and Energy Conservation Bank  
Interior, Department of  
    Bureau of Land Management  
    Bureau of Indian Affairs  
    Bureau of Mines  
    Bureau of Reclamation  
    Geological Survey  
    Minerals Management Service  
    U.S. Fish and Wildlife Service  
Labor, Department of  
Mine Safety and Health Administration  
Occupation Safety and Health Administration  
Transportation, Department of Federal Highway  
Administration  
Water Resources Council

#### **L.3      STATE AGENCIES**

Administrative Services, Department of  
Agriculture, Department of Soil and Water Conservation  
Commission  
Columbia River Gorge Commission  
Energy, Department of  
Environmental Quality, Department of  
Fish and Wildlife, Department of  
Forestry, Department of  
Geology and Mineral Industries, Department of  
Human Resources, Department of  
Insurance and Finance, Department of  
Land Conservation and Development Commission  
Parks and Recreation, Department of  
State Lands, Division of  
Water Resources Department of

#### **L.4      LOCAL AGENCIES**

City Councils  
County Courts  
County Commissioner, Board of  
Design Commissions  
Historical Preservation Commission  
Planning Commissions

**Section V. Sample Bid Bond**

**CITY OF HILLSBORO  
BID BOND**

**Project #** \_\_\_\_\_

**Project Title:** \_\_\_\_\_

WE \_\_\_\_\_, as principal,  
(Name of Bidding Firm)

and \_\_\_\_\_, a  
(Name of Surety Company)

\_\_\_\_\_ corporation, authorized to transact business in Oregon, as surety,  
(State of Incorporation)

hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns to pay unto the City of Hillsboro ten percent (10%) of the submitted Bid by the above named principal (firm) on the above named Project, namely the sum of

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**WHEREAS**, a Bid is submitted to the City of Hillsboro by the principal for the purpose of furnishing:

*2013 Pavement Management Program:  
Crack Seals, Micro-Surfacing, and Overlays and AC Replacements*

which Bid is made a part of this Bid bond by reference.

**NOW, THEREFORE**, if the Bid submitted by the principal is accepted, and if a Contract pursuant to the Bid is awarded to said principal, and if the principal enters into and executes such Contract and furnishes any performance/payment bond required by the City of Hillsboro within the time fixed by the City, then this obligation shall be void; otherwise, it shall remain in full force and effect.

**IN WITNESS WHEREOF**, we have caused this instrument to be executed and sealed by our duly authorized legal representatives.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
(Surety) (Principal)

By: \_\_\_\_\_ By: \_\_\_\_\_  
(Attorney in Fact)

\_\_\_\_\_  
(Company)

\_\_\_\_\_  
(Address)

Telephone (\_\_\_\_) \_\_\_\_\_



## Section VI. Warranty Bond

BOND NO. \_\_\_\_\_

PREMIUM NO. \_\_\_\_\_

### CITY OF HILLSBORO

### WARRANTY BOND

PROJECT NO. \_\_\_\_\_ PROJECT NAME: \_\_\_\_\_

WHEREAS, the City of Hillsboro (hereafter "City") and \_\_\_\_\_ (hereafter "Contractor") have entered into a contract ("Contract") dated \_\_\_\_\_, 20\_\_\_\_, whereby Contractor agreed to install and complete certain designated public improvements as a condition of, relating to, at Contractor's own expense and which Contract is hereby referred to and made a part hereof; and

WHEREAS, Contractor is required under the terms of the Contract to furnish warranty security for the work performed pursuant to the Contract in the amount of ten percent (10%) of the original amount of the contract to guarantee replacement and repair of the improvements as described in the Contract for a period of one year following the issuance of the Notice of Substantial Completion.

NOW, THEREFORE, we, Contractor, and ("Surety"), are held and firmly bound unto City in the penal sum of \_\_\_\_\_ (\$\_\_\_\_\_) lawful money of the United States, for the payment of which we bind ourselves, our heirs, successors, executors, and administrators, jointly and severally.

The condition of this obligation is such that if Contractor shall indemnify City for all loss that City may sustain by reason of any defective materials or workmanship which become apparent during the period of one year from and after acceptance of the improvements by the City Council of City, then this obligation shall be null and void; otherwise, this obligation shall remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified, costs and reasonable expenses and fees shall be included, including reasonable attorneys' fees incurred by City in successfully enforcing the obligation, all to be taxed as costs and included in any judgment rendered.

Surety shall provide City with thirty (30) days' written notice of Contractor's default prior to Surety terminating, suspending or revoking the bond.

In witness whereof, this instrument has been duly executed by Contractor and Surety on \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Contractor\_\_\_\_\_  
Surety

By \_\_\_\_\_

\_\_\_\_\_  
Attorney-in-Fact

State of OREGON

County of \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Signed or attested before me on \_\_\_\_\_, 20\_\_ by \_\_\_\_\_

\_\_\_\_\_  
Notary Public – State of Oregon

**City of Hillsboro  
2013 Pavement Management Program  
Contract #20552222-6102**

**Schedule "A": Slurry Seals**




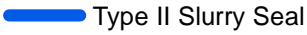


**Engineering Division  
150 E Main Street, Fourth Floor  
Hillsboro, OR 97123  
Phone: 503-681-6416**

# Schedule "A" Slurry Seals











March 2013

## Overview

### Legend

-  Light Rail Station
-  Type II Slurry Seal
-  Template Boundary
-  City Limits

### Roadway Jurisdiction

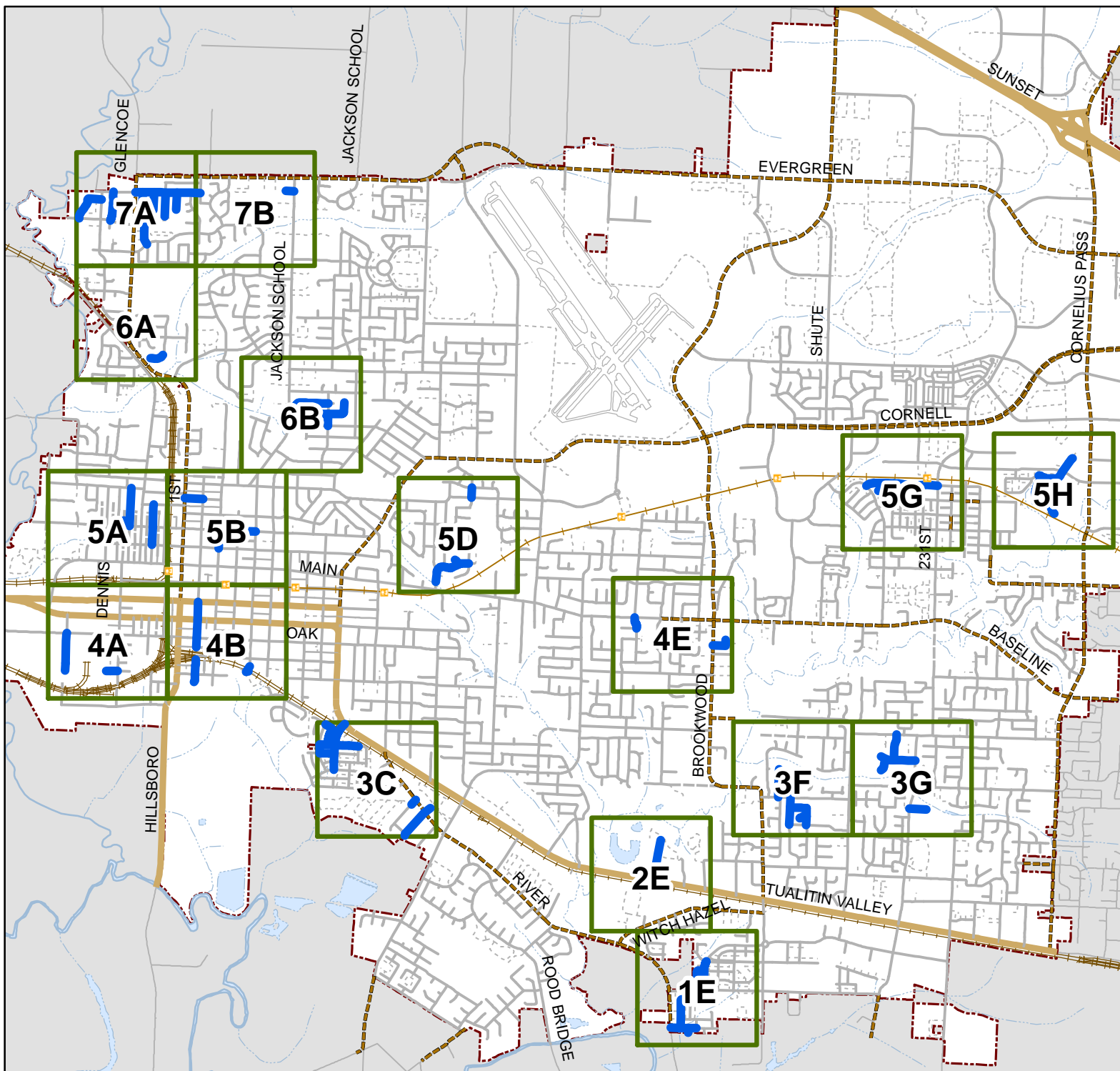
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



1 inch = 3,500 feet

#### DISCLAIMER

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**Template 1E**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
A3590	SE ALEXANDER ST	C/L WOODLEIGH ST	BEG PCC	134	38	0.25	705	1	0	2	0	0	1	0	0	0	FRI	
B3596B	SE ALEXANDER ST	END STAMPED PCC	S/S DAVIS	42	38	0	177	0	1	0	0	0	0	0	0	15	FRI	STOP BAR=1
C3599	SE ALEXANDER ST	N/S DAVIS ST	C/L TEAKWOOD ST	238	30	0	793	3	2	1	1	0	1	0	0	12	THUR	STOP BAR=1
D3616	SE ALEXANDER ST	C/L TEAKWOOD ST	C/L OLIVEWOOD ST	222	30	0	740	2	2	1	0	0	0	0	0	0	THUR	
E3650	SE ALEXANDER ST	C/L OLIVEWOOD ST	S/S LONE OAK ST	231	28	0	719	4	2	2	2	0	1	0	0	0	THUR	
3811	SE FIELDSTONE AVE	END (S)	S/S OAKHURST	99	30	0	330	2	2	2	0	0	0	0	0	0	FRI	MOSS
A3761	SE OAKHURST ST	E/S RIVER RD	C/L TWELVE OAKS	228	30	0	760	6	2	1	2	0	0	0	0	17	FRI	STOP BAR=1
B3775	SE OAKHURST ST	C/L TWELVE OAKS ST	C/L FIELDSTONE AVE	204	30	0	680	1	2	4	1	0	0	0	0	0	FRI	
C3785	SE OAKHURST ST	C/L FIELDSTONE	W/S RAINTREE	200	30	0	667	2	2	3	0	0	0	0	0	0	FRI	
A3617	SE OLIVEWOOD ST	C/L PINEWOOD	W/S ALEXANDER	168	26	0.125	555	0	2	2	0	0	1	0	0	15	THUR	STOP BAR=1
3607	SE PINEWOOD AVE	C/L REDWOOD	C/L OLIVEWOOD	324	26	0	936	3	2	0	2	0	0	0	0	0	THUR	
3732	SE REDWOOD ST	END (W)	C/L PINEWOOD ST	107	26	0.25	449	4	2	4	1	0	1	0	0	0	THUR	MOSS
A3624	SE TWELVE OAKS ST	N/S OAKHURST	C/L ROSEWOOD	217	30	0	723	2	2	5	0	0	1	0	0	0	FRI	
B3748	SE TWELVE OAKS ST	C/L ROSEWOOD	C/L WOODLEIGH	500	30	0.25	1806	5	2	4	2	0	0	0	0	0	FRI	
A3676	SE WOODLEIGH ST	C/L TWELVE OAKS ST	C/L OAKLEAF ST	247	30	0.25	963	4	1	2	1	0	0	0	0	0	FRI	
B3744	SE WOODLEIGH ST	C/L OAKLEAF ST	C/L ALEXANDER	330	30	0	1100	4	2	7	2	0	1	0	0	0	FRI	
<b>TEMPLATE TOTALS</b>							<b>12,103</b>	<b>43</b>	<b>28</b>	<b>40</b>	<b>14</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>59</b>		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.



# Schedule "A" Slurry Seals

March 2013

2E

## Legend

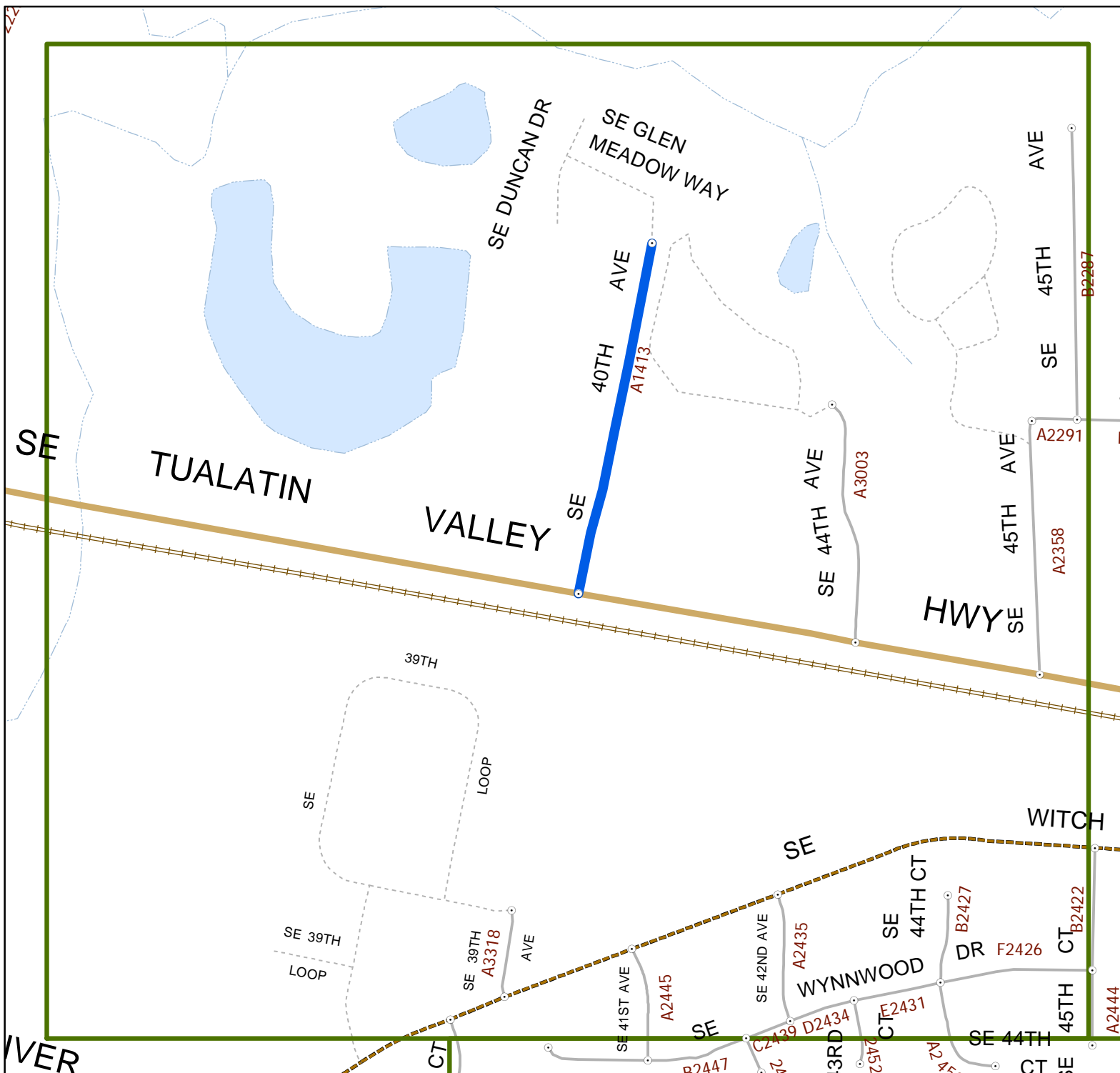
- Section Node
  - Light Rail Station
  - Type II Slurry Seal
  - Template Boundary
  - City Limits
- ### Roadway Jurisdiction
- City Roadway
  - City Alley
  - Unimproved City ROW
  - Private
  - County Road
  - State Highway
  - Light Rail
  - Heavy Rail
  - Stream
  - River



1 inch = 400 feet

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**Template 2E**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	GV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
A1413	SE 40TH AVE	N/S TV HWY	GLEN MEADOW (END GUTTER)	1033	17	0	1951	5	3	3	1	0	0	0	0	0	11	FRI	STOP BAR=1; PCC GUTTER DOWN CENTER
TEMPLATE TOTALS							1,951	5	3	3	1	0	0	0	0	0	11		

Note: Sections that are on the ege of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

**3C**

### Legend

- Section Node
- 📍 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

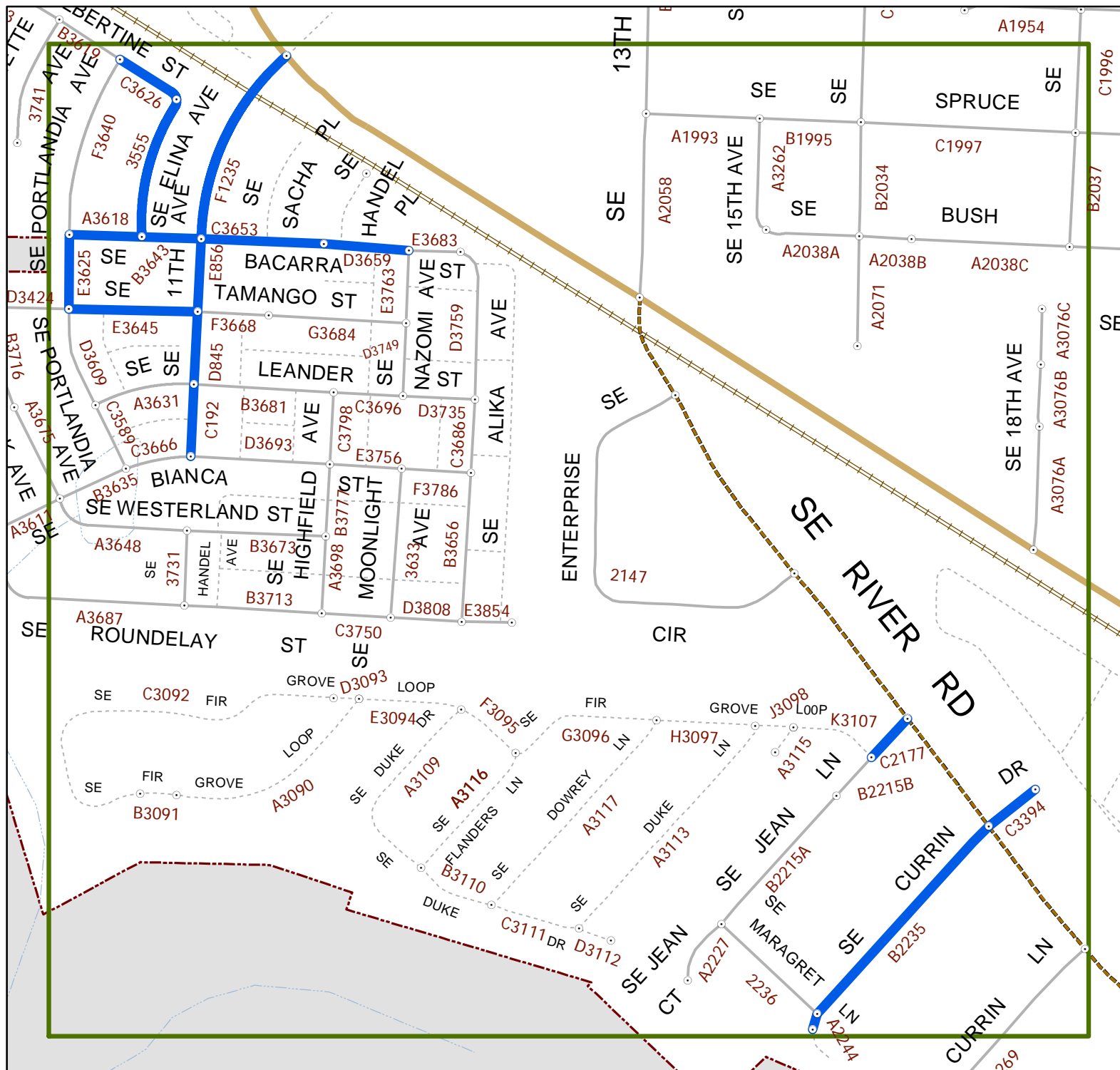
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

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**Template 3C**  
**Schedule "A": Slurry Seals**  
2013 Pavement Management Program  
#20552222-6102

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES					SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS								GARBAGE DAY	NOTES
								MH	CB	WV	GV	GTE MH	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE	8" WHITE	4" WHITE	LEFT TURN ARROW	RIGHT TURN ARROW	BIKE SYMBOL	RR XING			
C192	SE 11TH AVE	N/S BIANCA	C/L LEANDER	197	40	0	876	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FRI	MOSS; STOP BAR=1	
D845	SE 11TH AVE	C/L LEANDER ST	PCC @ TAMANGO ST	188	40	0	836	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FRI		
E856	SE 11TH AVE	PCC @ TAMANGO	PCC @ BACARRA	157	57	0	994	0	2	1	0	0	0	0	0	1	0	0	0	276	0	0	0	2	0	FRI	
F1235	SE 11TH AVE	PCC @ BACARRA ST	S/S TV HWY	550	54	0	3300	3	4	1	1	0	0	0	1	16	0	319	1233	80	3	3	3	3	FRI	STOP BAR=4; STD XWALK=1	
C3626	SE ALBERTINE ST	E/S PORTLANDIA	C/L ELINA	200	29	0	644	3	2	2	0	0	3	0	1	0	0	0	0	0	0	0	0	0	FRI		
A3618	SE BACARRA ST	E/S PORTLANDIA	C/L ELINA	197	29	0	635	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	FRI		
B3643	SE BACARRA ST	C/L ELINA	PCC @ 11TH AVE	136	29	0	438	1	2	3	0	0	0	0	0	0	0	16	0	0	0	0	0	0	FRI	STOP BAR=1	
C3653	SE BACARRA ST	PCC @ 11TH AVE	PAVEMENT CHANGE	308	29	0	992	2	2	3	0	0	2	0	0	0	0	17	0	0	0	0	0	0	FRI	STOP BAR=1	
D3659	SE BACARRA ST	PAVEMENT CHANGE	E/S NAZOMI AVE	253	29	0	815	2	2	3	0	0	2	0	1	0	0	0	0	0	0	0	0	0	FRI		
A2244	SE CURRIN DR	C/L MARGARET LN	CUL DE SAC	11	32	1	597	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FRI		
B2235	SE CURRIN DR	C/L MARGARET LN	S/S RIVER RD	725	18	0	1450	2	1	2	0	1	0	0	0	0	0	11	0	0	0	0	0	0	FRI	STOP BAR=1	
C3394	SE CURRIN DR	N/S RIVER RD	END	179	29	0	577	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	FRI		
3555	SE ELINA AVE	N/S BACARRA	C/L ALBERTINE	408	29	0	1315	4	2	2	0	0	3	0	1	0	0	0	0	0	0	0	0	0	FRI		
C2177	SE JEAN LN	42FT (S) C/L FIR GROVE LP	S/S RIVER RD	165	36	0	660	0	0	1	0	0	0	0	0	0	0	16	0	0	0	0	0	0	FRI	STOP BAR=1	
E3625	SE PORTLANDIA AVE	N/S TAMANGO	N/S BACARRA	226	29	0	728	2	2	5	0	0	2	0	1	0	0	0	0	0	0	0	0	0	FRI		
E3645	SE TAMANGO ST	W/S PORTLANDIA	PCC @ 11TH	376	29	0	1212	4	2	4	0	0	1	0	0	0	0	16	0	0	0	0	0	0	FRI	STOP BAR=1	
TEMPLATE TOTALS							16,069	30	26	33	1	1	14	0	7	16	0	411	1,509	80	3	3	5	3			

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

**3F**

### Legend

- Section Node
- 📍 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

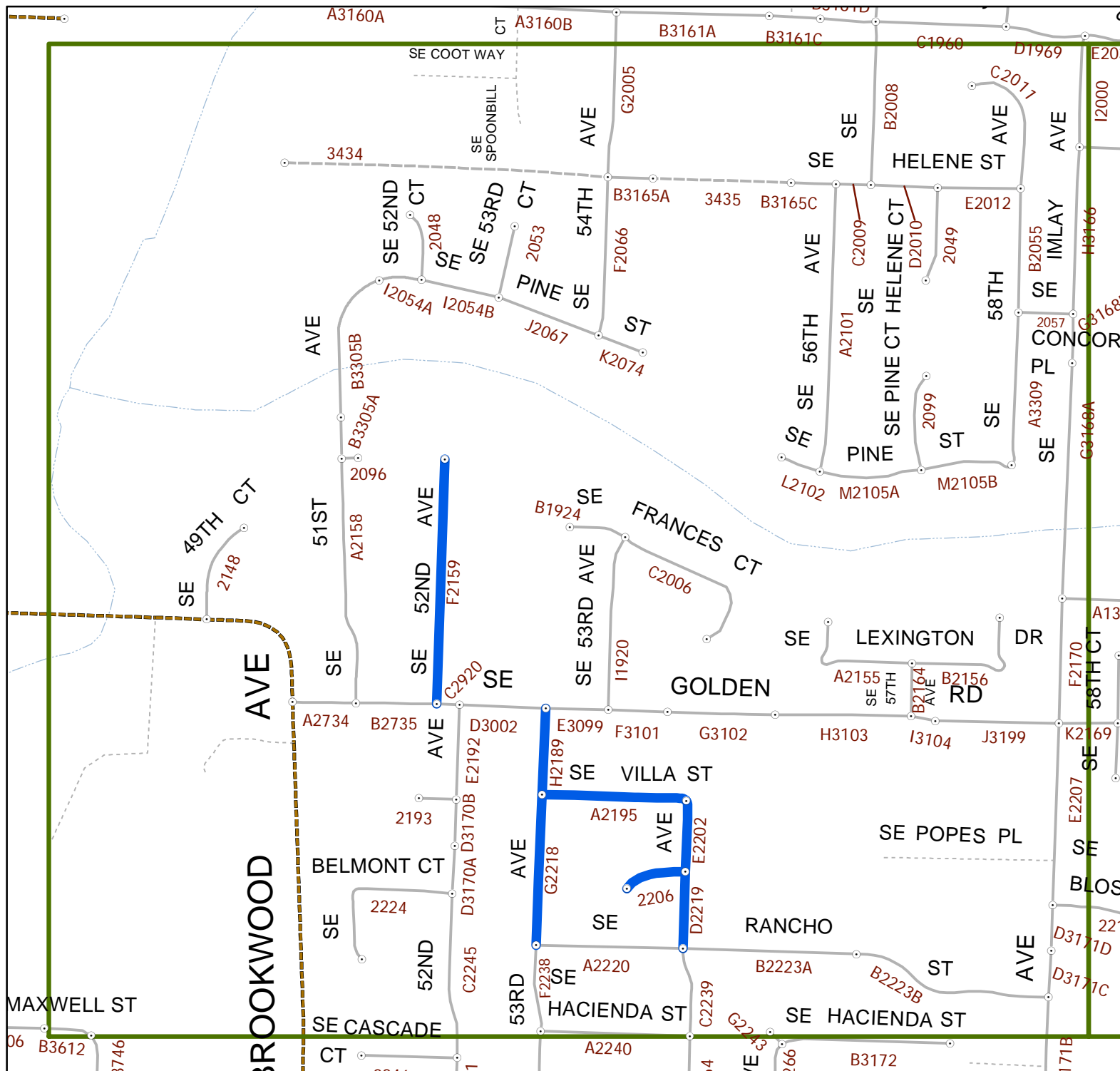
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

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**Template 3F**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES		SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
F2159	SE 52ND AVE	N/S GOLDEN RD	CUL DE SAC	676	32	1	2962	3	3	0	0	1	0	0	18	MON	STOP BAR=1
G2218	SE 53RD AVE	N/S RANCHO ST	C/L VILLA ST	421	32	0	1497	1	2	0	0	0	0	0	0	MON	
H2189	SE 53RD AVE	C/L VILLA ST	S/S GOLDEN RD	246	32	0	875	1	2	0	0	0	0	0	16	MON	STOP BAR=1
D2219	SE 54TH AVE	N/S RANCHO ST	C/L 54TH AVE (SPUR)	209	36	0	836	2	1	0	0	1	0	0	15	MON	STOP BAR=1
E2202	SE 54TH AVE	C/L 54TH AVE (SPUR)	S/S VILLA ST	202	36	0	808	2	2	0	0	0	0	0	0	MON	
2206	SE 54TH AVE (SPUR)	W/S 54TH AVE	CUL DE SAC	127	36	1	1066	1	2	0	0	0	0	0	0	MON	
A2195	SE VILLA ST	E/S 53RD AVE	E/S 54TH AVE	435	32	0.25	1686	1	0	1	0	0	0	0	0	MON	
<b>TEMPLATE TOTALS</b>							<b>9,730</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>49</b>		

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2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

### 3G

### Legend

- Section Node
- 📍 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

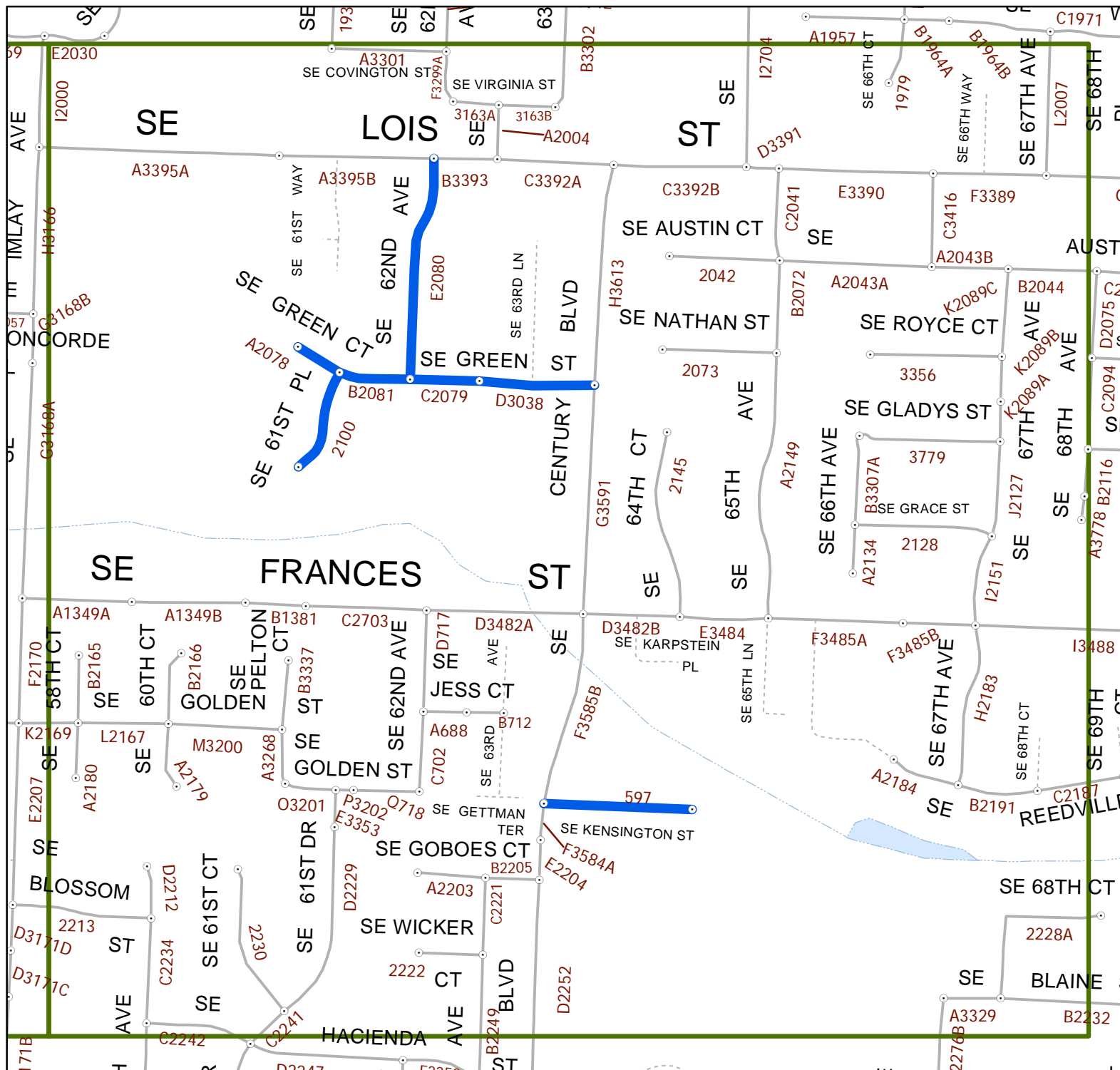
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- ▬▬▬▬▬ County Road
- ▬▬▬▬▬ State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

## DISCLAIMER

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**Template 3G**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
2100	SE 61ST PL	CDS (S)	S/S GREEN CT	261	29	1	1399	3	2	2	1	0	1	0	0	0	TUE	
E2080	SE 62ND AVE	N/S GREEN ST	S/S LOIS ST	631	30	0	2103	5	4	3	0	0	1	0	0	17	TUE	STOP BAR=1
A2078	SE GREEN CT	CDS (W)	C/L 61ST PL	90	29	1	848	1	0	3	2	0	1	0	0	0	TUE	
B2081	SE GREEN CT	C/L 61ST PL	C/L 62ND AVE	210	29	0	677	3	2	1	0	0	0	0	0	0	TUE	
C2079	SE GREEN ST	C/L 62ND AVE	PVMT CHNG	217	29	0	699	2	0	0	0	0	1	0	0	0	TUE	
D3038	SE GREEN ST	PVMT CHNG	W/S CENTURY	314	29	0	1012	2	2	0	0	0	1	0	0	12	TUE	STOP BAR=1
597	SE KENSINGTON ST	E/S CENTURY BLVD	END	410	30	0	1367	2	4	1	0	0	1	0	0	15	WED	STOP BAR=1
<b>TEMPLATE TOTALS</b>							<b>8,105</b>	<b>18</b>	<b>14</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>44</b>		

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2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

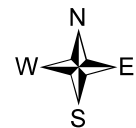
**4A**

### Legend

- Section Node
- 🚊 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

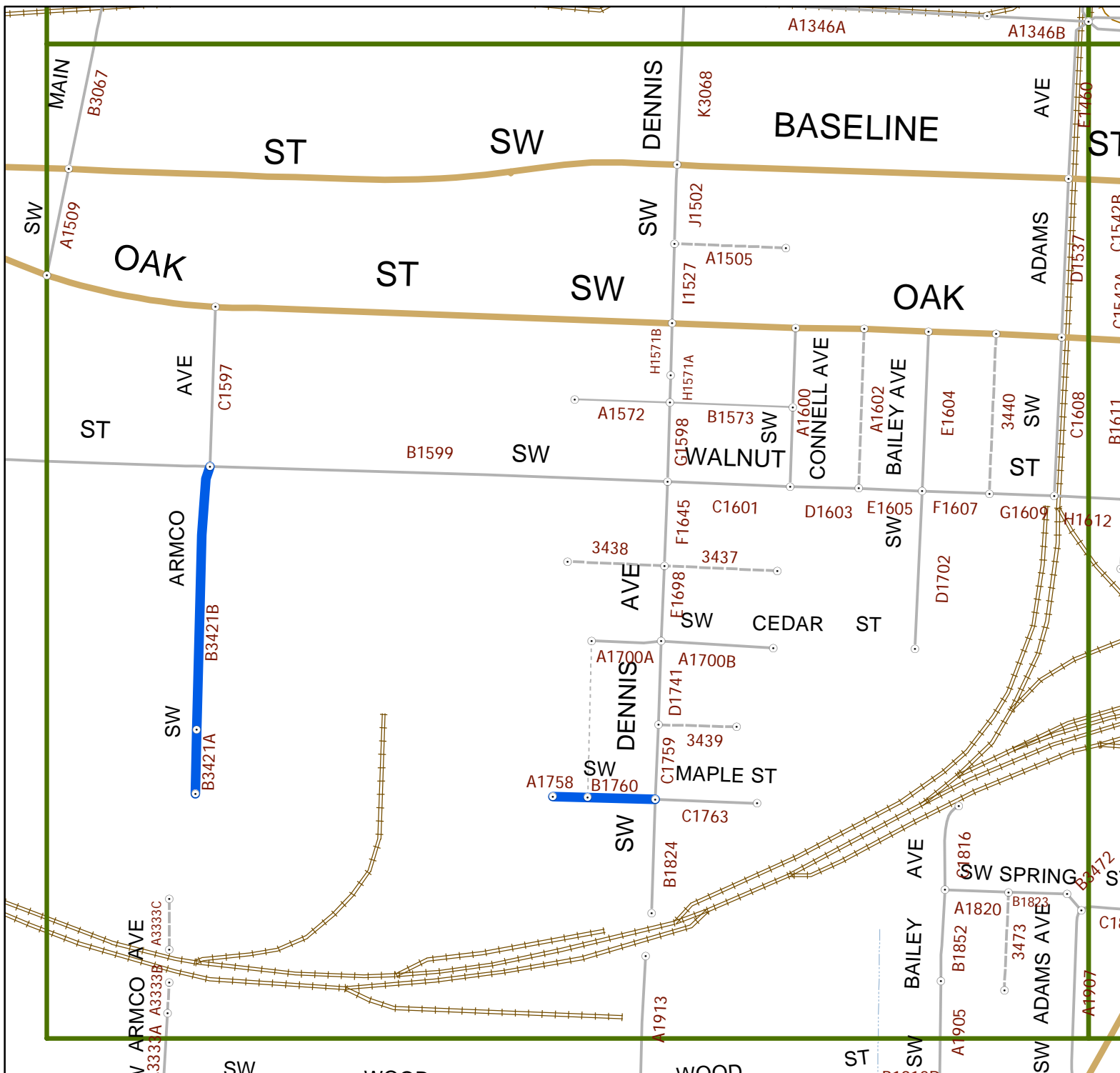
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

## DISCLAIMER

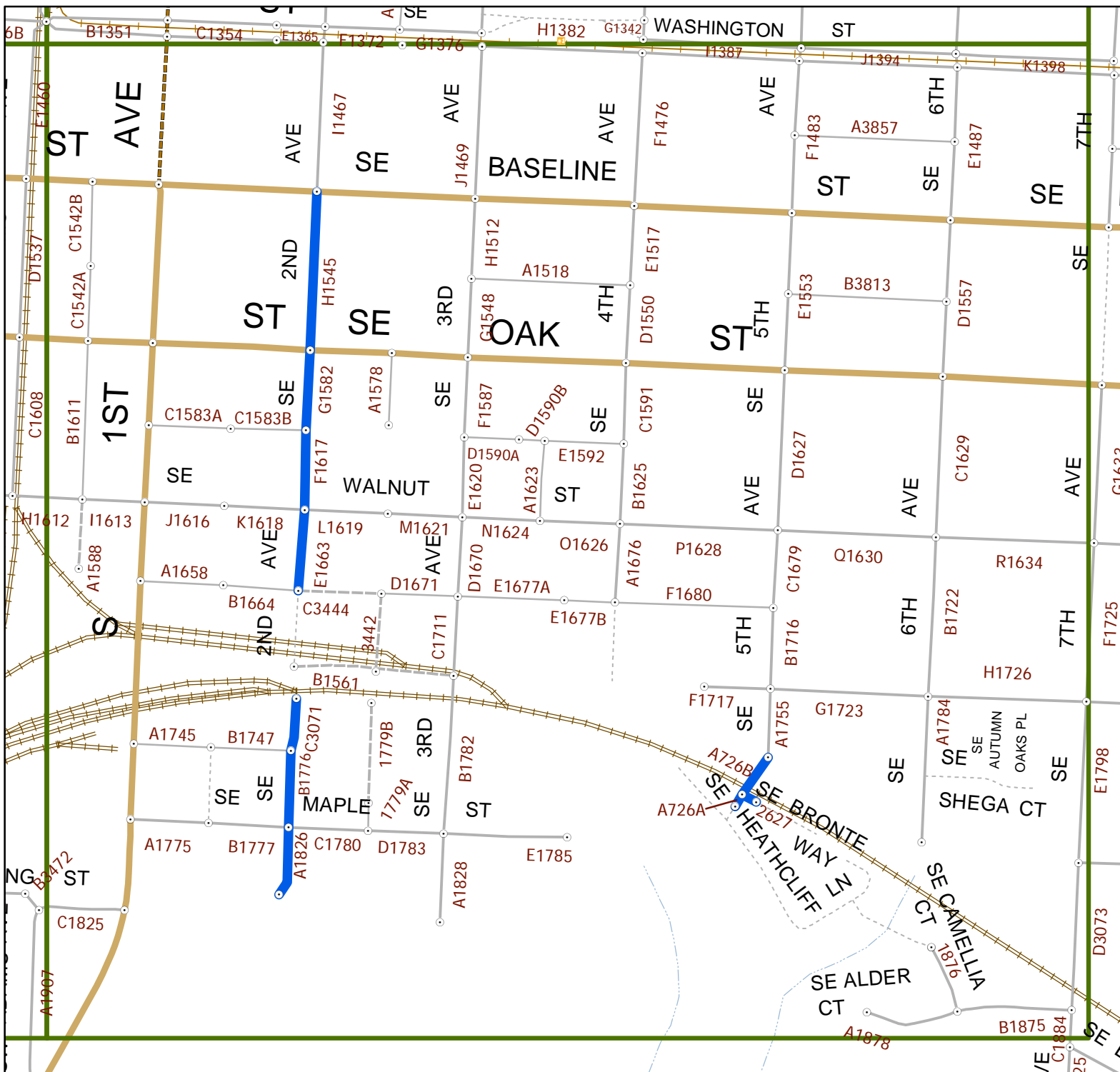
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**Template 4A**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS		GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	4" WHITE	12" WHITE		
B3421A	SW ARMCO AVE	GATE (S)	BEG C/G (W)	192	30	0	640	0	0	0	0	1	0	0	0	92	0	MON	
B3421B	SW ARMCO AVE	BEG C/G (W)	S/S WALNUT ST	756	34	0	2856	2	3	6	0	0	2	0	0	0	21	MON	STOP BAR=1
A1758	SW MAPLE ST	GATE	C/L TRAILER PK DWY	108	36	0	432	0	0	1	0	0	1	0	0	0	0	MON	
B1760	SW MAPLE ST	C/L TRAILER PK DWY	W/S DENNIS AVE	196	36	0	784	1	2	1	0	0	0	0	0	0	16	MON	STOP BAR=1
<b>TEMPLATE TOTALS</b>							<b>4,712</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>37</b>		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.



2013 Pavement Management Program  
#20552222-6102

# Schedule "A" Slurry Seals

March 2013

4B

## Legend

- Section Node
- Light Rail Station
- Type II Slurry Seal
- + Template Boundary
- + City Limits

## Roadway Jurisdiction

- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



1 inch = 400 feet

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**Template 4B**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS			GARBAGE DAY	NOTES
								MH	CB	WV	GV	PIN	MON BOX	BLUE	RED/WHITE	YELLOW	12" WHITE	4" WHITE	RR XING		
A1826	SE 2ND AVE	S/S MAPLE ST	END PAVE (S)	198	19	0	614	1	1	0	0	0	0	0	0	0	13	0	0	MON	STOP BAR=1
B1776	SE 2ND AVE	N/S MAPLE ST	C/L MAPLE-CEDAR ALLEY	210	19	0	443	1	1	0	0	0	0	0	0	0	15	0	0	MON	STOP BAR=1
C3071	SE 2ND AVE	C/L MAPLE-CEDAR ALLEY	END	147	18	0	294	1	0	0	0	0	0	0	0	0	0	0	0	MON	
E1663	SE 2ND AVE	N/S CEDAR-WALNUT ALLEY	S/S WALNUT ST	196	26	0	588	1	4	0	0	0	0	0	0	0	72	0	0	MON	STD XWALK=1
F1617	SE 2ND AVE	N/S WALNUT ST	C/L WALNUT-OAK ALLEY	214	26	0	645	2	2	3	0	0	0	1	5	0	74	60	0	MON	STD XWALK=1
G1582	SE 2ND AVE	C/L WALNUT-OAK ALLEY	S/S OAK ST	214	26	0	655	0	0	1	0	0	0	1	5	0	83	50	0	MON	STD XWALK=1
H1545	SE 2ND AVE	20 FT N OF N/S OAK ST	S/S BASELINE ST	406	40	0	1804	1	0	3	1	0	0	1	10	0	80	100	0	MON	STD XWALK=1
A726A	SE 5TH AVE	PRIVATE S (PCC XWALK)	C/L BRONTE	37	21	0	86	1	2	3	0	1	0	0	0	0	0	0	1	MON	
A726B	SE 5TH AVE	C/L BRONTE	PAVEMNT CHNG	99	30	0	330	0	2	1	0	0	2	1	0	0	73	0	0	MON	STOP BAR=2
2627	SE BRONTE WAY	E/S 5TH AVE	PVT EAST (PCC XWALK)	32	19	0	68	0	0	0	0	0	0	0	0	0	11	0	0	MON	STOP BAR=1
<b>TEMPLATE TOTALS</b>							<b>5,527</b>	<b>8</b>	<b>12</b>	<b>11</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>421</b>	<b>210</b>	<b>1</b>		

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2013 Pavement Management Program  
#20552222-6102

# Schedule "A" Slurry Seals

March 2013

4E

## Legend

- Section Node
- Light Rail Station
- Type II Slurry Seal
- Template Boundary
- City Limits

## Roadway Jurisdiction

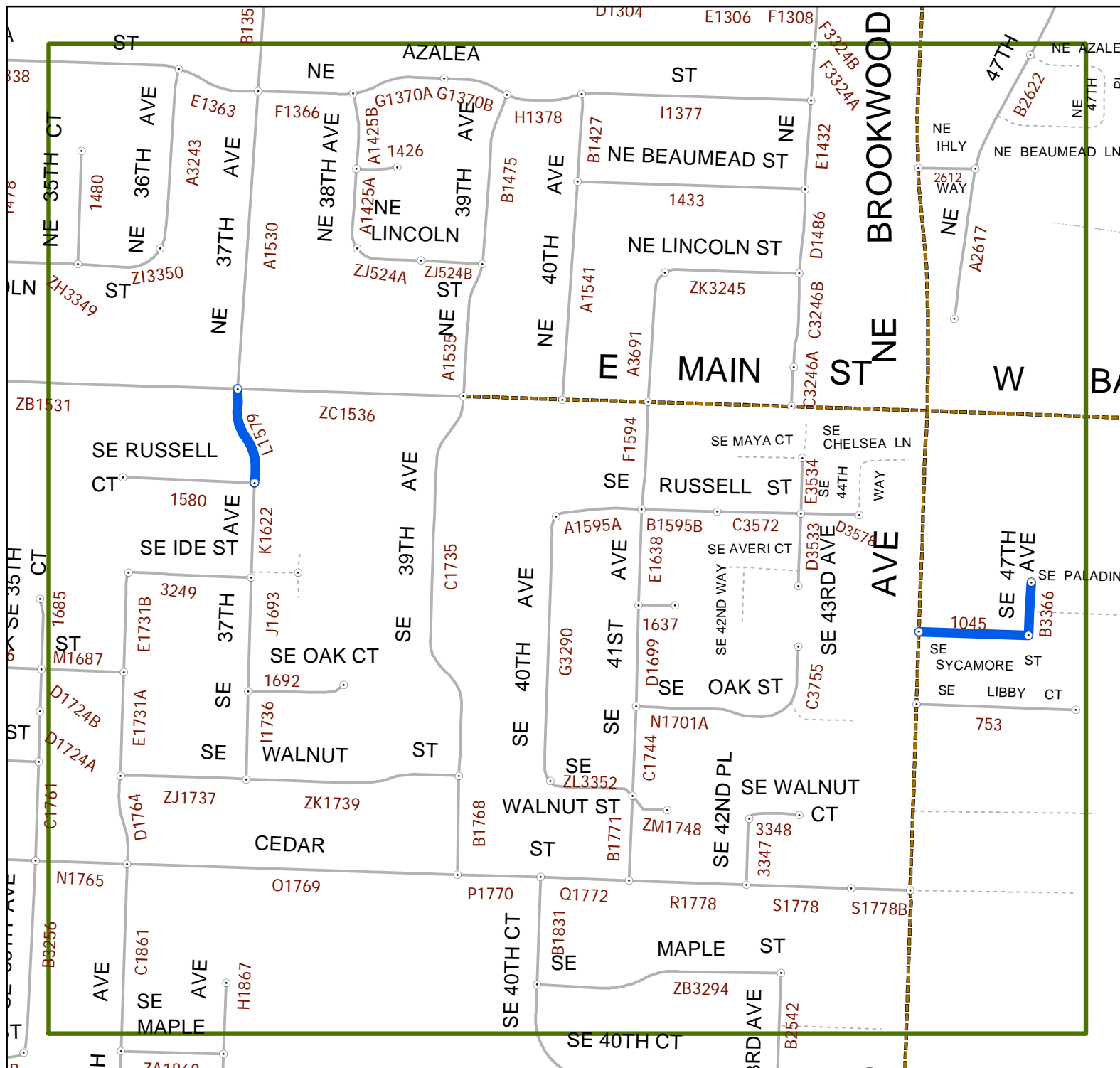
- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



1 inch = 400 feet

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**Template 4E**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
L1579	SE 37TH AVE	N/S RUSSELL CT	S/S E MAIN ST	243	36	0	972	3	0	0	0	0	0	0	0	19	WED	STOP BAR=1
B3366	SE 47TH AVE	C/L SYCAMORE ST	END (N)	150	26	0	433	3	0	4	0	2	0	0	0	0	WED	
1045	SE SYCAMORE ST	E/S BROOKWOOD	C/L 47TH AVE	290	26	0	838	0	2	2	1	1	1	0	0	15	WED	STOP BAR=1
<b>TEMPLATE TOTALS</b>							<b>2,243</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>34</b>		

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**Template 5A**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	GV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
C3451A	HB ALLEY (DENNIS/EBBERTS)	N/S JACKSON ST	END PAVEMENT	92	12	0	123	0	1	0	0	0	0	0	0	0	0	TUE	
G1162	NW BAILEY AVE	N/S LINCOLN ST	S/S JACKSON ST	416	29	0	1340	0	4	1	1	0	0	1	0	0	31	TUE	STOP BAR=2
H1057	NW BAILEY AVE	N/S JACKSON ST	S/S RACHEL ST	534	29	0	1721	2	5	1	0	0	0	2	0	0	15	TUE	STOP BAR=1
O1047	NW DENNIS AVE	N/S JACKSON	S/S GARIBALDI ST	950	32	0	3378	1	2	0	0	0	0	1	0	0	30	TUE	STOP BAR=2
<b>TEMPLATE TOTALS</b>							<b>6,562</b>	<b>3</b>	<b>12</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>76</b>		

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







# Schedule "A" Slurry Seals

March 2013

5B

## Legend

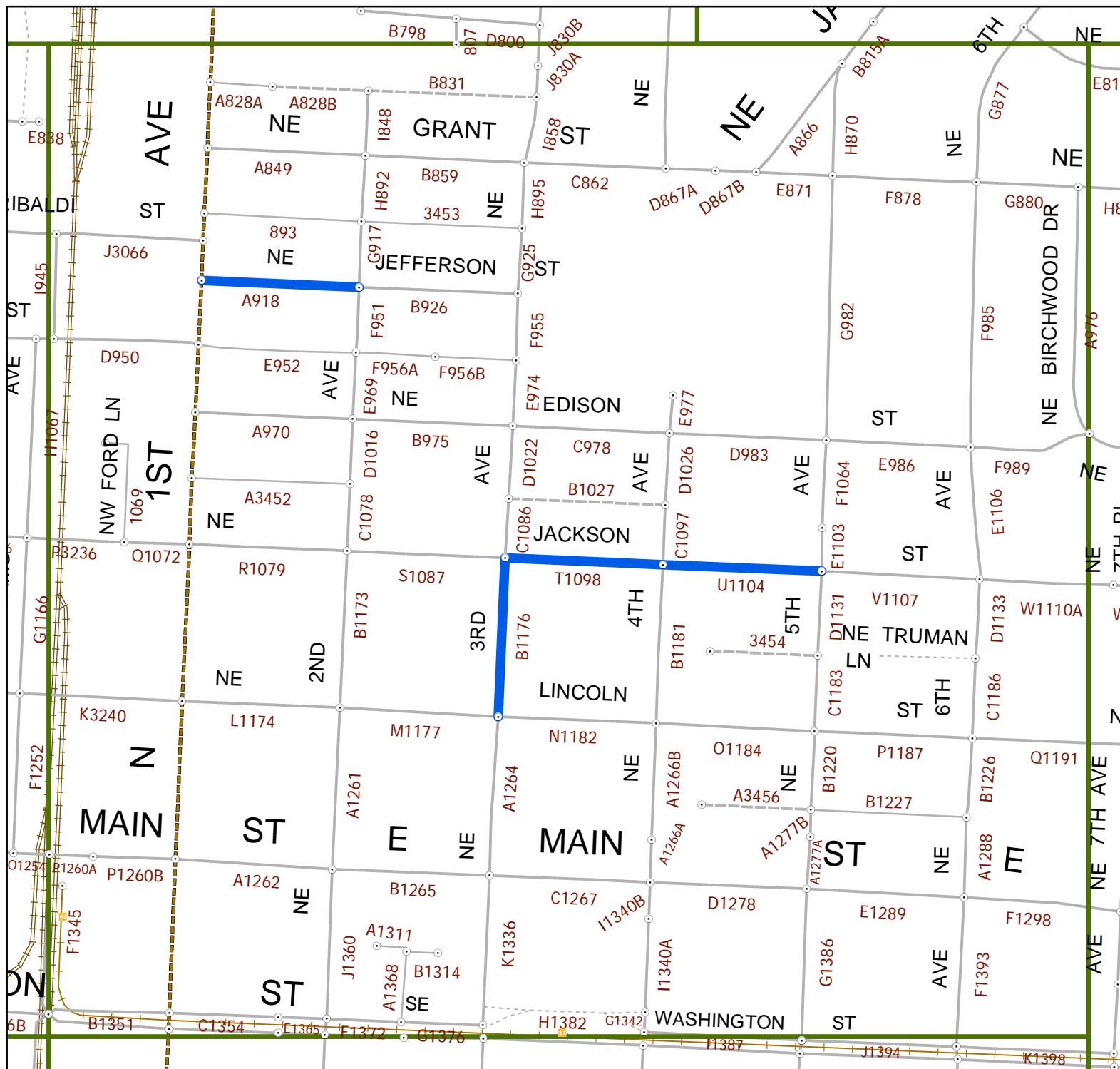
-  Section Node
  -  Light Rail Station
  -  Type II Slurry Seal
  -  Template Boundary
  -  City Limits
- ## Roadway Jurisdiction
-  City Roadway
  -  City Alley
  -  Unimproved City ROW
  -  Private
  -  County Road
  -  State Highway
  -  Light Rail
  -  Heavy Rail
  -  Stream
  -  River



1 inch = 400 feet

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**Template 5B**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS		GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	4" YELLOW	12" WHITE		
B1176	NE 3RD AVE	N/S LINCOLN ST	S/S JACKSON ST	431	26	0	1245	2	4	0	0	0	2	0	3	100	104	MON	STD XWALK=2
T1098	NE JACKSON ST	W/S 3RD AVE	W/S 4TH AVE	426	22	0	1041	0	1	1	0	0	1	0	0	0	88	MON	STD XWALK=2
U1104	NE JACKSON ST	E/S 4TH AVE	W/S 5TH AVE	435	22	0	1063	2	0	0	0	0	0	0	0	0	88	MON	STD XWALK=2
A918	NE JEFFERSON ST	E/S 1ST AVE	W/S 2ND AVE	413	30	0	1377	0	2	0	0	0	1	0	0	0	89	MON	STD XWALK=1.5
TEMPLATE TOTALS							4,726	4	7	1	0	0	4	0	3	100	369		
















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# Schedule "A" Slurry Seals

March 2013

5D

## Legend

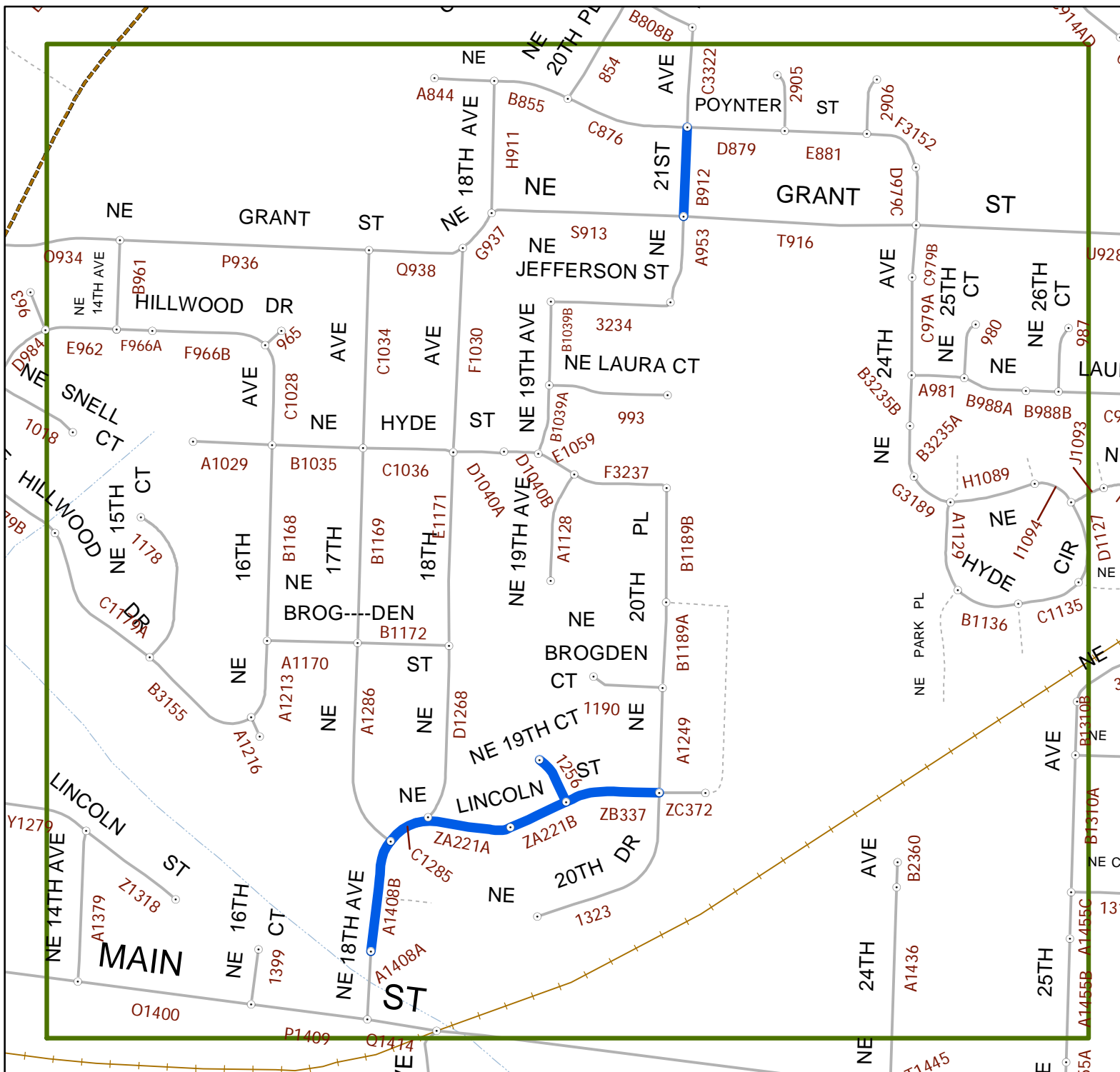
-  Section Node
  -  Light Rail Station
  -  Type II Slurry Seal
  -  Template Boundary
  -  City Limits
- ## Roadway Jurisdiction
-  City Roadway
  -  City Alley
  -  Unimproved City ROW
  -  Private
  -  County Road
  -  State Highway
  -  Light Rail
  -  Heavy Rail
  -  Stream
  -  River



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**Template 5D**  
**Schedule "A": Slurry Seals**  
 2013 Pavement Management Program  
 #20552222-6102

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	CLEAN OUT	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
A1408B	NE 18TH AVE	PVMT CNG (#147)	C/L 17TH AVE	280	36	0	1120	0	2	2	0	0	0	1	0	0	92	WED	STD XWALK=0.5; HI-VIS=1
C1285	NE 18TH AVE	C/L 17TH AVE	36 FT N N/S LINCOLN ST	174	36	0	696	1	2	1	0	0	0	0	0	0	160	WED	HI-VIS=1
1256	NE 19TH CT	N/S LINCOLN ST	CUL DE SAC (N)	92	36	1	926	2	1	0	0	0	0	0	0	0	0	WED	
B912	NE 21ST AVE	N/S GRANT ST	N/S POYNTER ST	264	36	0	1056	2	3	0	0	0	0	0	0	0	11	WED	INCL INT @ POYNTER; STOP BAR=1
ZA221A	NE LINCOLN ST	E/S 18TH AVE	PAVEMENT CHANGE	185	32	0	658	1	0	0	0	0	0	0	0	0	15	WED	STOP BAR=1
ZA221B	NE LINCOLN ST	PAVEMENT CHANGE	C/L 19TH CT	243	33	0	891	3	1	0	0	0	0	1	0	0	0	WED	
ZB337	NE LINCOLN ST	C/L 19TH CT	W/S 20TH PL	268	36	0	1072	0	1	0	1	0	0	0	0	0	34	WED	STD XWALK=0.5
TEMPLATE TOTALS							6,419	9	10	3	1	0	0	2	0	0	312		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.



2013 Pavement Management Program  
#20552222-6102

# Schedule "A" Slurry Seals

March 2013

5G

## Legend

- Section Node
- Light Rail Station
- Type II Slurry Seal
- Template Boundary
- City Limits

## Roadway Jurisdiction

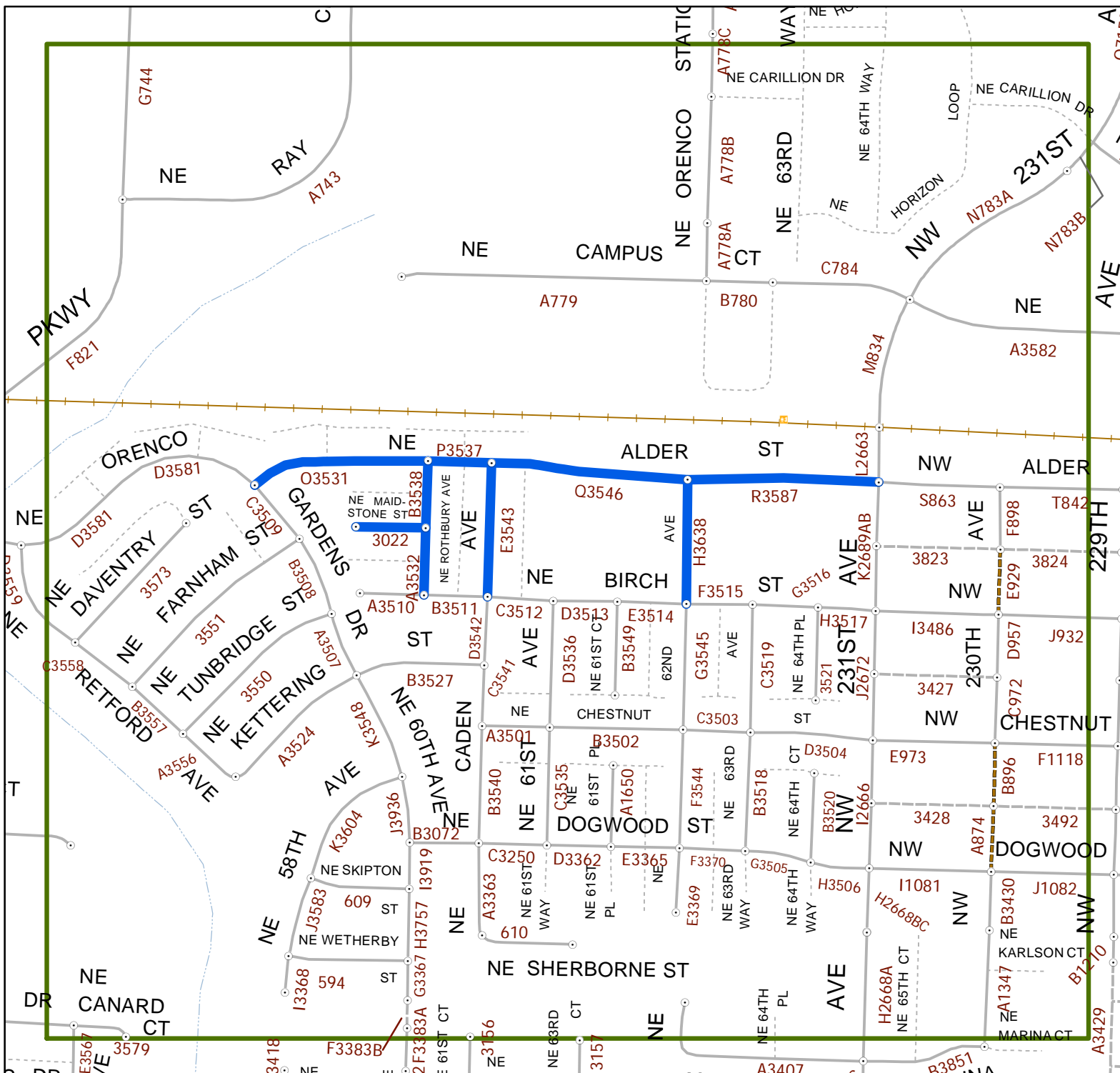
- City Roadway
- City Alley
- - - Unimproved City ROW
- - - Private
- - - County Road
- State Highway
- Light Rail
- Heavy Rail
- - - Stream
- River



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**Template 5G**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS		GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE	4" WHITE		
H3638	NE 62ND AVE	PCC @ BIRCH ST	PCC @ ALDER ST	311	30	0	1037	3	2	0	0	0	2	0	0	130	75	TUE	STOP BAR=1; STD XWALK=2
O3531	NE ALDER ST	E/S ORENCO GARDENS DR	C/L ROTHBURY AVE	524	30	0	1747	6	4	1	4	0	1	0	0	0	0	TUE	
P3537	NE ALDER ST	C/L ROTHBURY AVE	C/L CADEN DR	192	30	0	640	1	1	0	2	0	1	0	0	0	0	TUE	
Q3546	NE ALDER ST	C/L CADEN DR	PCC @ 62ND	539	30	0	1797	5	3	0	3	0	1	0	0	120	129	TUE	STD XWALK=2
R3587	NE ALDER ST	PCC @ 62ND AVE	W/S 231ST AVE	406	30	0	1353	2	4	0	0	0	1	0	0	120	116	TUE	STD XWALK=2
E3543	NE CADEN AVE	N/S BIRCH ST	S/S ALDER ST	374	30	0	1247	2	2	0	1	0	0	0	0	14	0	TUE	STOP BAR=1
3022	NE MAIDSTONE ST	END	W/S ROTHBURY ST	215	30	0	717	2	2	0	0	0	0	0	0	0	0	TUE	
A3532	NE ROTHBURY AVE	N/S BIRCH ST	C/L MAIDSTONE	189	30	0	630	1	2	0	3	0	0	0	0	0	0	TUE	
B3538	NE ROTHBURY AVE	C/L MAIDSTONE ST	C/L ALDER ST	189	30	0	630	1	2	0	1	0	0	0	0	0	0	TUE	
TEMPLATE TOTALS							9,798	23	22	1	14	0	6	0	0	384	320		

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2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

**5H**

### Legend

- Section Node
- 🚊 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

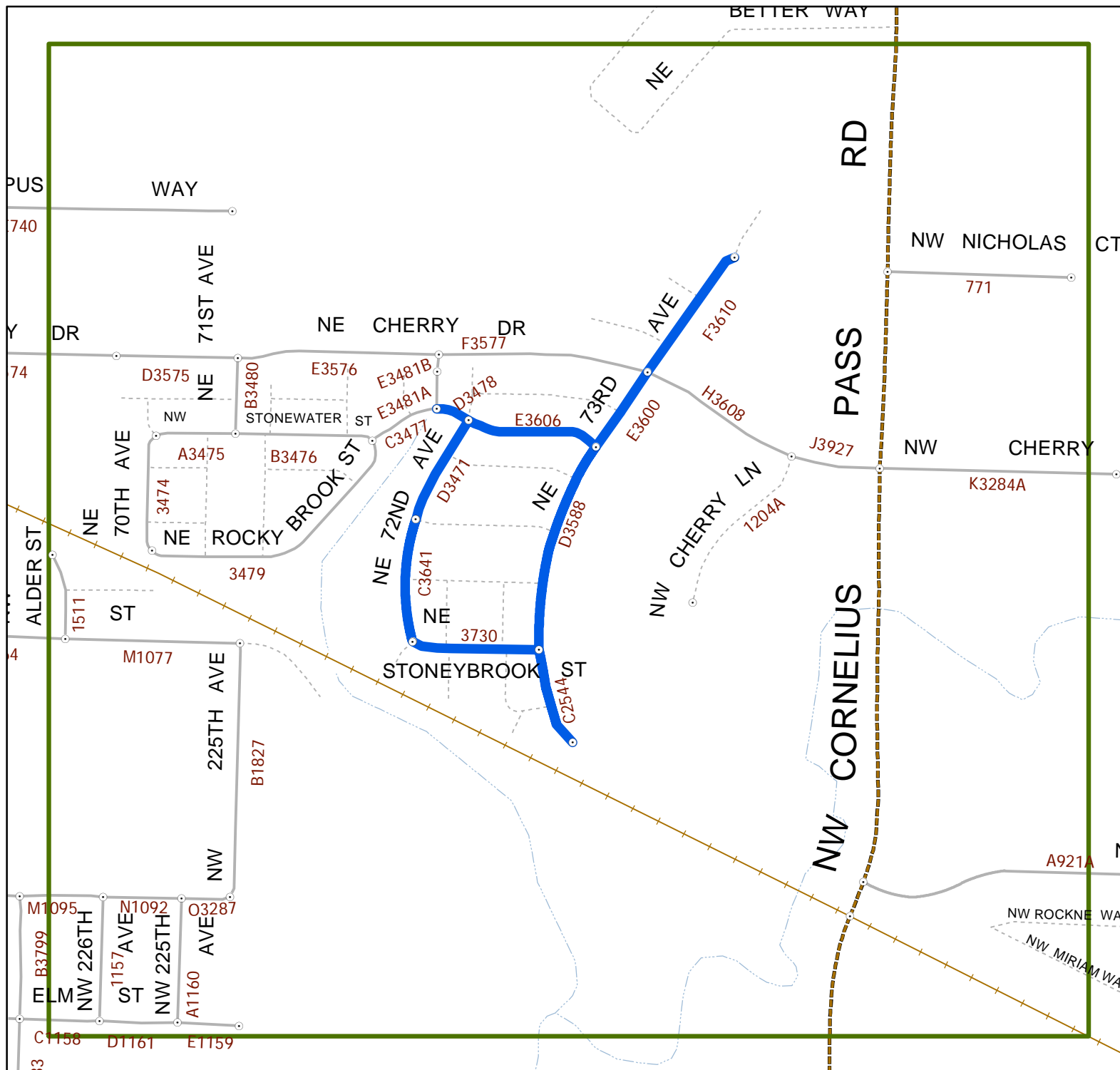
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



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**Template 5H**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	CLEAN OUT	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
C3641	NE 72ND AVE	C/L STONEYBROOK ST	WIDTH CHANGE	372	33	0	1364	5	2	5	0	4	0	1	0	0	0	TUE	
D3471	NE 72ND AVE	WIDTH CHANGE	S/S STONEWATER ST	327	26	0	945	4	8	5	0	5	0	2	0	0	0	TUE	
C2544	NE 73RD AVE	CDS	C/L NE STONEYBROOK ST	450	30	1	2058	8	3	8	0	2	0	0	0	0	0	TUE	CDS INCL IN LENGTH
D3588	NE 73RD AVE	C/L NE STONEYBROOK ST	C/L NE STONEWATER ST	638	30	0	2127	9	4	12	0	6	0	1	0	0	0	TUE	
E3600	NE 73RD AVE	C/L NE STONEWATER ST	S/S CHERRY DR	239	30	0	797	2	2	6	0	1	0	1	0	0	95	TUE	STD XWALK=1
F3610	NE 73RD AVE	N/S CHERRY DR	CDS	555	30	0	1850	5	4	6	1	4	0	1	0	0	98	TUE	CDS INCL IN LENGTH; STD XWALK=1
D3478	NE STONEWATER ST	E/S PCC (72ND-W)	C/L 72ND AVE (E)	72	26	0	208	1	0	0	0	2	0	0	0	0	0	TUE	
E3606	NE STONEWATER ST	C/L NE 72ND AVE (E)	W/S 73RD AVE	382	30	0	1273	4	2	0	0	3	0	0	0	0	0	TUE	
3730	NE STONEYBROOK ST	C/L 72ND AVE	W/S 73RD AVE	367	30	0	1223	7	2	9	1	4	0	1	0	0	0	TUE	
TEMPLATE TOTALS							11,845	45	27	51	2	31	0	7	0	0	193		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.



2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

**6A**

### Legend

- Section Node
- 🚏 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

## DISCLAIMER

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However, notification of errors would be appreciated.

**Template 6A**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW		
I906	NE 2ND AVE	CDS	PVMT CHANGE	350	30	1.25	1864	5	2	3	4	0	2	0	0	TUE	
TEMPLATE TOTALS							1,864	5	2	3	4	0	2	0	0		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

2013 Pavement Management Program  
#20552222-6102

## Schedule "A" Slurry Seals

March 2013

**6B**

### Legend

- Section Node
- 📍 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- ▬▬▬▬▬ County Road
- ▬▬▬▬▬ State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



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**Template 6B**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES			SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
H640A	NE 9TH AVE	N/S ARRINGTON RD	WIDTH CHANGE	142	32	0	505	0	2	0	0	0	0	0	0	15	THUR	STOP BAR=1
H640B	NE 9TH AVE	WIDTH CHANGE	S/S BALDWIN DR	179	36	0	716	1	1	0	0	0	1	0	0	0	THUR	
A582	NE BALDWIN DR	E/S JACKSON SCHOOL RD	BALDWIN ST	150	38	0	681	1	1	1	0	0	1	0	0	22	THUR	Moss; STOP BAR=1
B606	NE BALDWIN DR	C/L BALDWIN ST	W/S 9TH AVE	893	28	0	2778	4	4	0	0	0	1	0	0	15	THUR	STOP BAR=1
C607	NE BALDWIN DR	E/S 9TH AVE	CUL DE SAC	573	29	1	2405	3	4	2	0	0	1	0	0	15	THUR	STOP BAR=1
A581	NE BALDWIN ST	C/L BALDWIN DR	W/S 9TH AVE	929	28	0	2890	2	2	0	0	0	1	0	0	15	THUR	STOP BAR=1
<b>TEMPLATE TOTALS</b>							<b>9,975</b>	<b>11</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>82</b>		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

## Schedule "A" Slurry Seals

March 2013

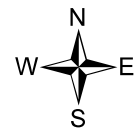
**7A**

### Legend

- Section Node
- 🚉 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

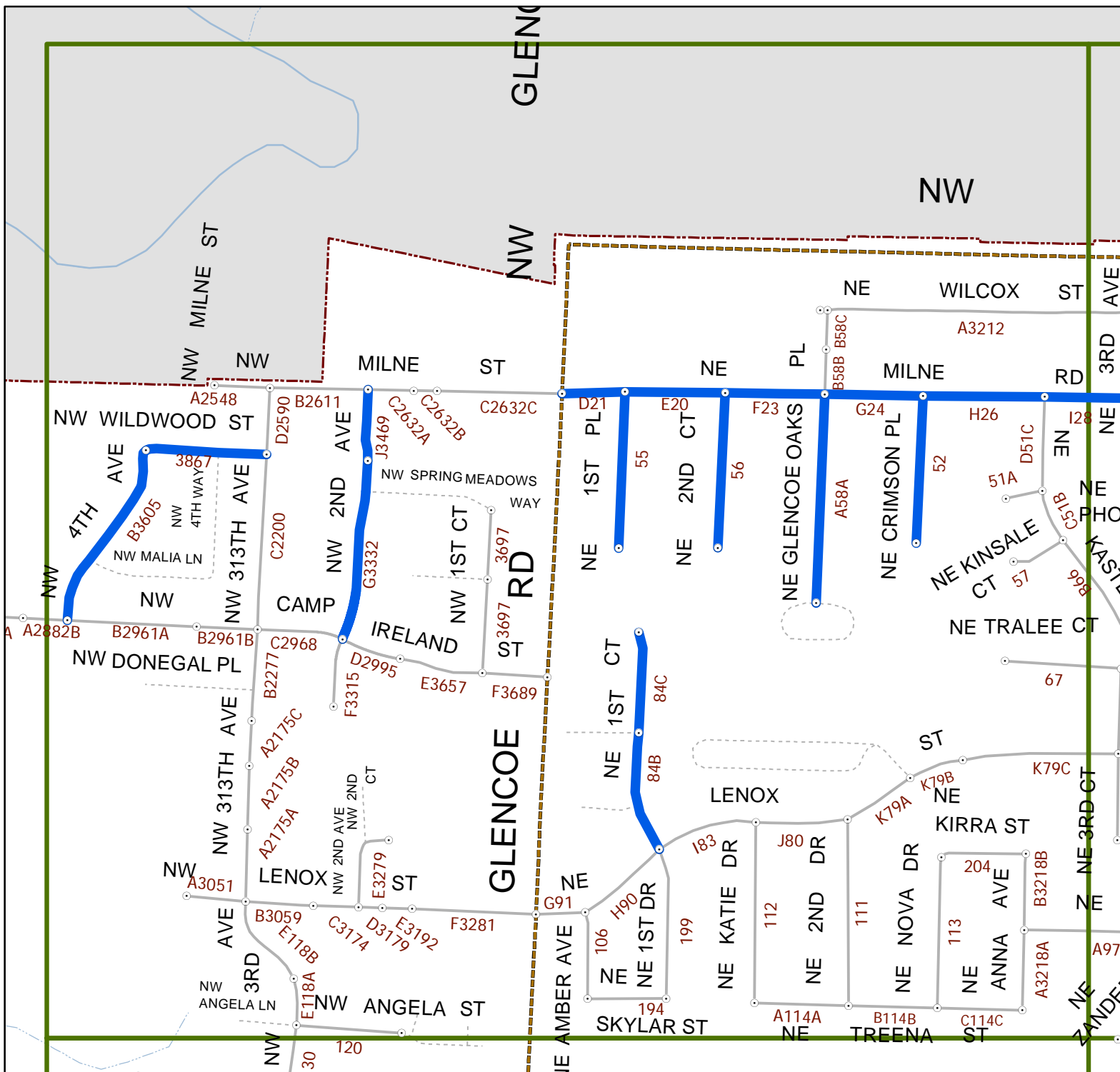
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

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**Template 7A**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES				SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	WV	CLEAN OUT	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
84B	NE 1ST CT	N/S LENOX ST	C/L PRIVATE DRIVE	335	29	0	1079	1	4	0	0	2	0	1	0	0	0	TUE	
84C	NE 1ST CT	C/L PRIVATE DRIVE	CUL DE SAC (N)	256	29	1	1383	3	0	2	0	1	0	1	0	0	0	TUE	
55	NE 1ST PL	S/S MILNE RD	CUL DE SAC	372	30	1	1798	2	3	3	1	1	0	1	0	0	0	TUE	
56	NE 2ND CT	S/S MILNE RD	CUL DE SAC	376	30	1	1812	3	3	0	1	1	0	1	0	0	0	TUE	ONE WATER BOX
52	NE CRIMSON PL	S/S MILNE RD	CUL DE SAC (S)	384	30	1	1838	4	3	2	0	1	0	1	0	0	0	TUE	
A58A	NE GLENCOE OAKS PL	N/S SCHOOL LOOP	S/S MILNE	574	30	0	1913	3	6	1	0	1	0	1	0	0	0	TUE	
D21	NE MILNE ST	E/S GLENCOE RD	C/L 1ST PL	169	34	0	638	1	0	1	0	1	0	0	0	0	21	TUE	STOP BAR=1
E20	NE MILNE ST	C/L 1ST PL	C/L 2ND CT	293	34	0	1107	2	1	0	0	2	0	1	0	0	0	TUE	
F23	NE MILNE ST	C/L 2ND CT	C/L GLENCOE OAKS	292	34	0	1103	1	0	0	0	2	0	0	0	0	0	TUE	
G24	NE MILNE ST	C/L GLENCOE OAKS PL	C/L CRIMSON PL	294	30	0	980	2	1	0	0	1	0	1	0	0	0	TUE	
H26	NE MILNE ST	C/L CRIMSON PL	C/L KASTER DR	360	30	0	1200	3	0	0	1	2	0	0	0	0	0	TUE	
I28	NE MILNE ST	C/L KASTER DR	W/S 3RD AVE	238	30	0	793	1	1	3	0	0	0	2	0	0	0	TUE	
G3332	NW 2ND AVE	N/S CAMP IRELAND	PAVEMENT CHANGE	511	25	0	1419	8	6	6	0	7	0	2	0	0	0	TUE	
J3469	NW 2ND AVE	PAVEMENT CHANGE	S/S MILNE	194	25	0	539	1	0	1	0	3	0	1	0	0	13	TUE	STOP BAR=1
B3605	NW 4TH AVE	N/S CAMP IRELAND	C/L WILDWOOD	553	25	0.25	1676	13	5	5	0	6	0	2	0	0	0	TUE	
3867	NW WILDWOOD ST	C/L 4TH AVE	W/S 313TH AVE	339	25	0	942	2	3	3	0	2	0	0	0	0	0	TUE	
<b>TEMPLATE TOTALS</b>							<b>20,220</b>	<b>50</b>	<b>36</b>	<b>27</b>	<b>3</b>	<b>33</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>34</b>		

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## Schedule "A" Slurry Seals

March 2013

**7B**

### Legend

- Section Node
- 📍 Light Rail Station
- ▬ Type II Slurry Seal
- 🟩 Template Boundary
- 🔴 City Limits

## Roadway Jurisdiction

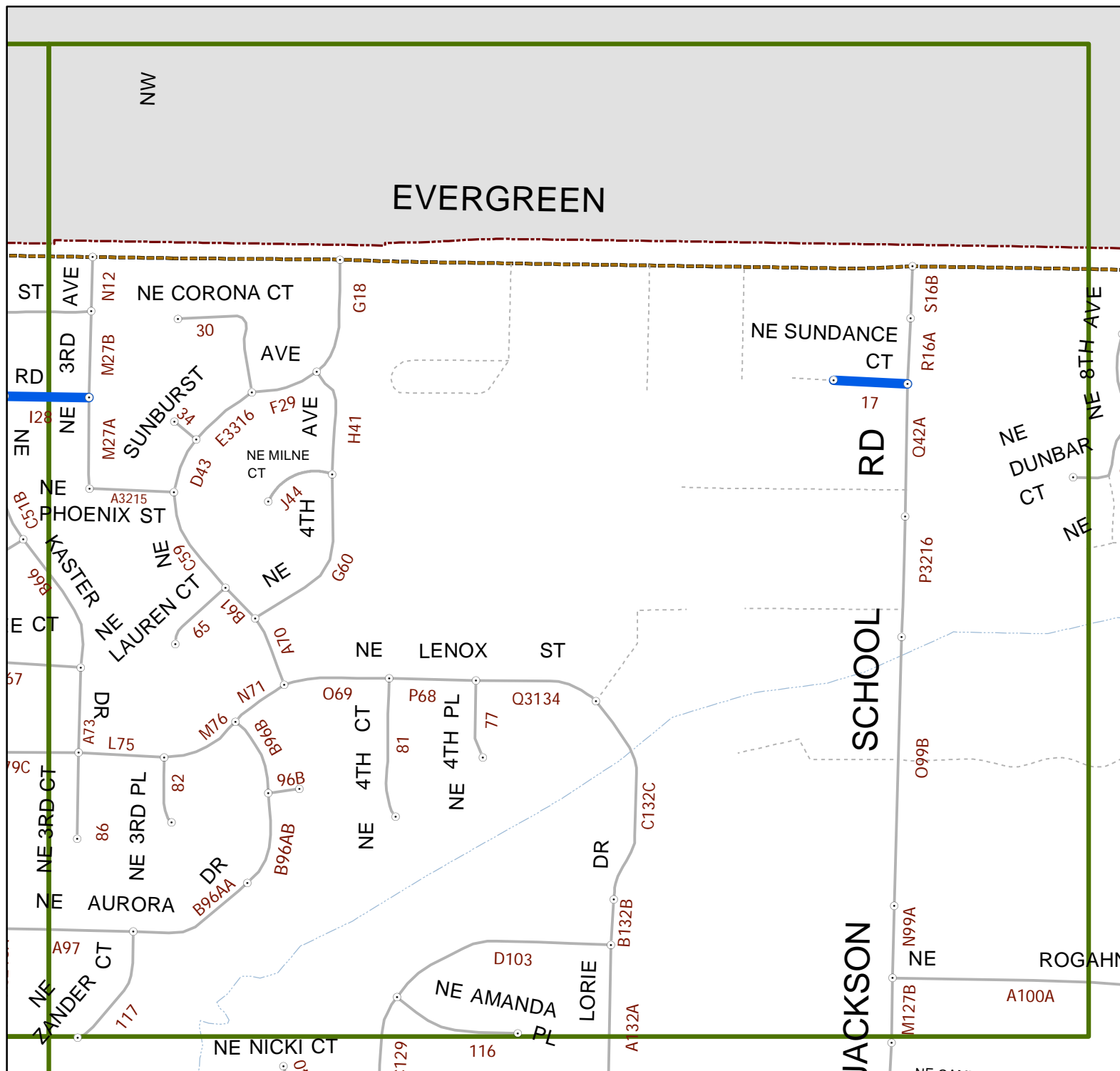
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- - - - - County Road
- State Highway
- + + + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

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**Template 7B**  
**Schedule "A": Slurry Seals**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	FROM	TO	L	W	CDS?	AREA (SQYD)	EXISTING UTILITIES		SURVEY		RPMS			THERMOPLASTIC PAVEMENT MARKINGS	GARBAGE DAY	NOTES
								MH	CB	PIN	MON BOX	BLUE	WHITE	YELLOW	12" WHITE		
17	NE SUNDANCE CT	W/S JACKSON SCHOOL RD	CUL DE SAC (W)	201	30	0.50	949	0	3	2	0	1	0	0	14	TUE	STOP BAR=1
TEMPLATE TOTALS							949	0	3	2	0	1	0	0	14		

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**City of Hillsboro  
2013 Pavement Management Program  
Contract #20552222-6102**

**Schedule "B": Micro-Surfacing**








**Engineering Division  
150 E Main Street, Fourth Floor  
Hillsboro, OR 97123  
Phone: 503-681-6416**

# Schedule "B" Micro-Surfacing











March 2013

## Overview

### Legend

-  Light Rail Station
-  Micro-Surfacing
-  Double Micro
-  Template Boundary
-  City Limits

### Roadway Jurisdiction

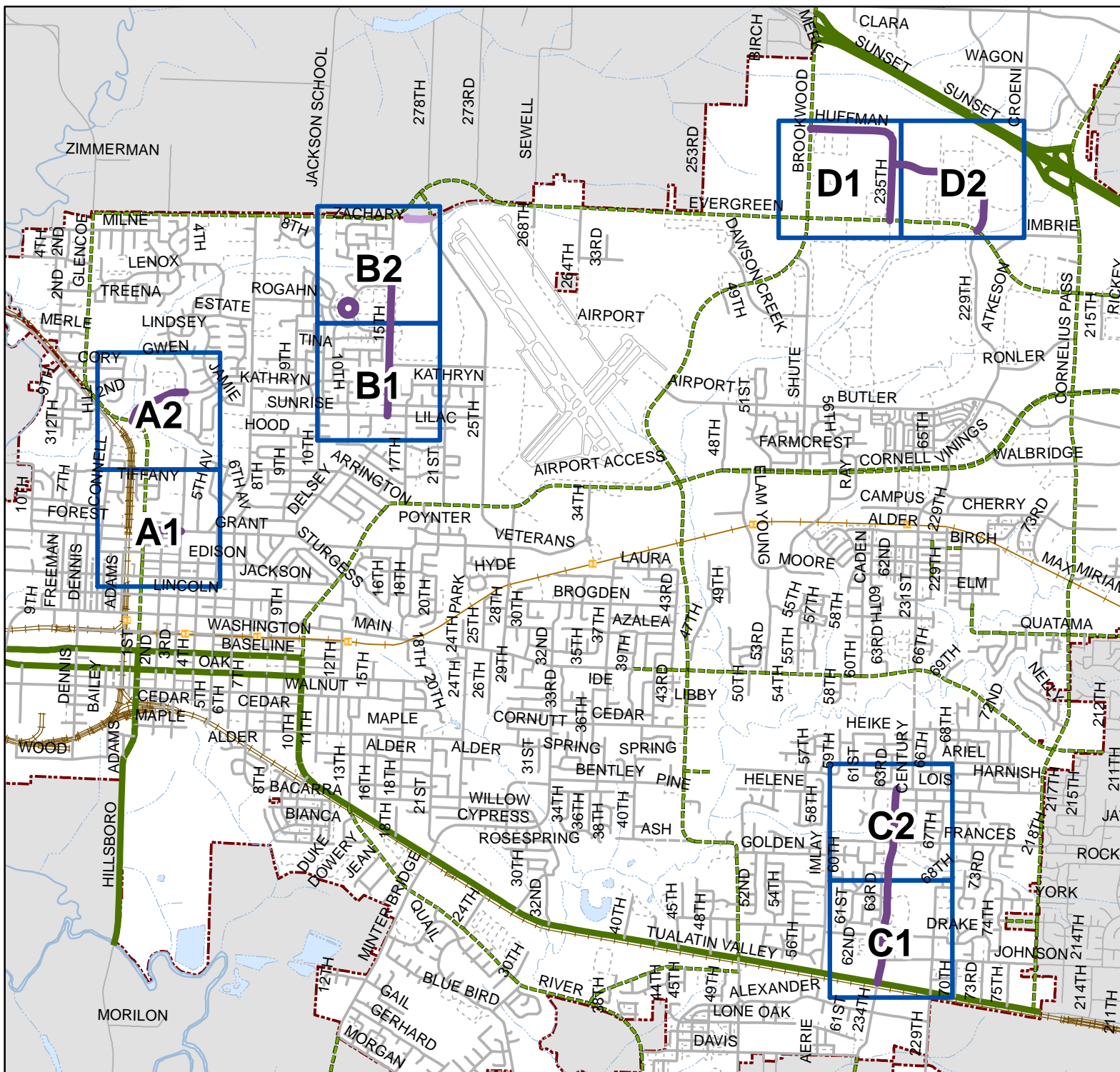
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



1 inch = 3,400 feet

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2013 Pavement Management Program  
#20552222-6102

## Schedule "B" Micro-Surfacing

March 2013

## A1

### Legend

- Section Node
- Light Rail Station
- Micro-Surfacing
- Double Micro
- Template Boundary
- City Limits

## Roadway Jurisdiction

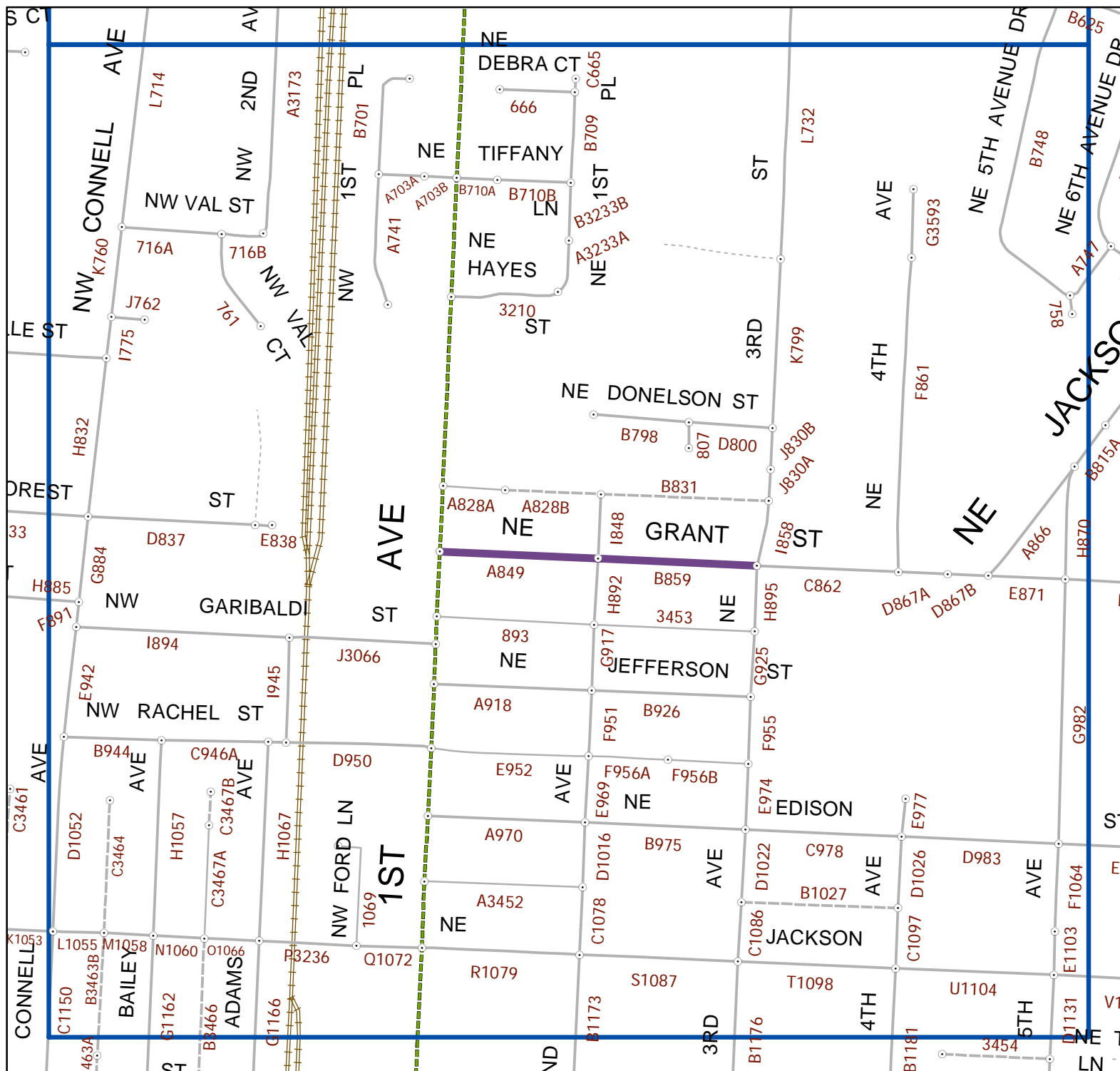
- City Roadway
- City Alley
- - - - - Unimproved City ROW
- - - - - Private
- ■ ■ ■ ■ County Road
- State Highway
- + + + Light Rail
- + + + + + Heavy Rail
- . - . - . Stream
- River



1 inch = 400 feet

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**Template A1**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY			RPMS		THERMOPLASTIC PAVEMENT MARKINGS		GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	WATER VALVES	BLUE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)		
A849	NE GRANT ST	E/S 1ST AVE	C/L 2ND AVE	447	36	0	1788	1	2	2	2	14	212	16	MON	STOP BAR=1
B859	NE GRANT ST	C/L 2ND AVE	E/S 3RD AVE	495	36	0	1980	1	3	6	0	10	110	71	MON	STD XWALK=1
<b>TEMPLATE TOTALS</b>							<b>3,768</b>	<b>2</b>	<b>5</b>	<b>8</b>	<b>2</b>	<b>24</b>	<b>322</b>	<b>87</b>		

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2013 Pavement Management Program  
#20552222-6102

## Schedule "B" Micro-Surfacing











March 2013

## A2

### Legend

- Section Node
- Light Rail Station
- Micro-Surfacing
- Double Micro
- Template Boundary
- City Limits

## Roadway Jurisdiction

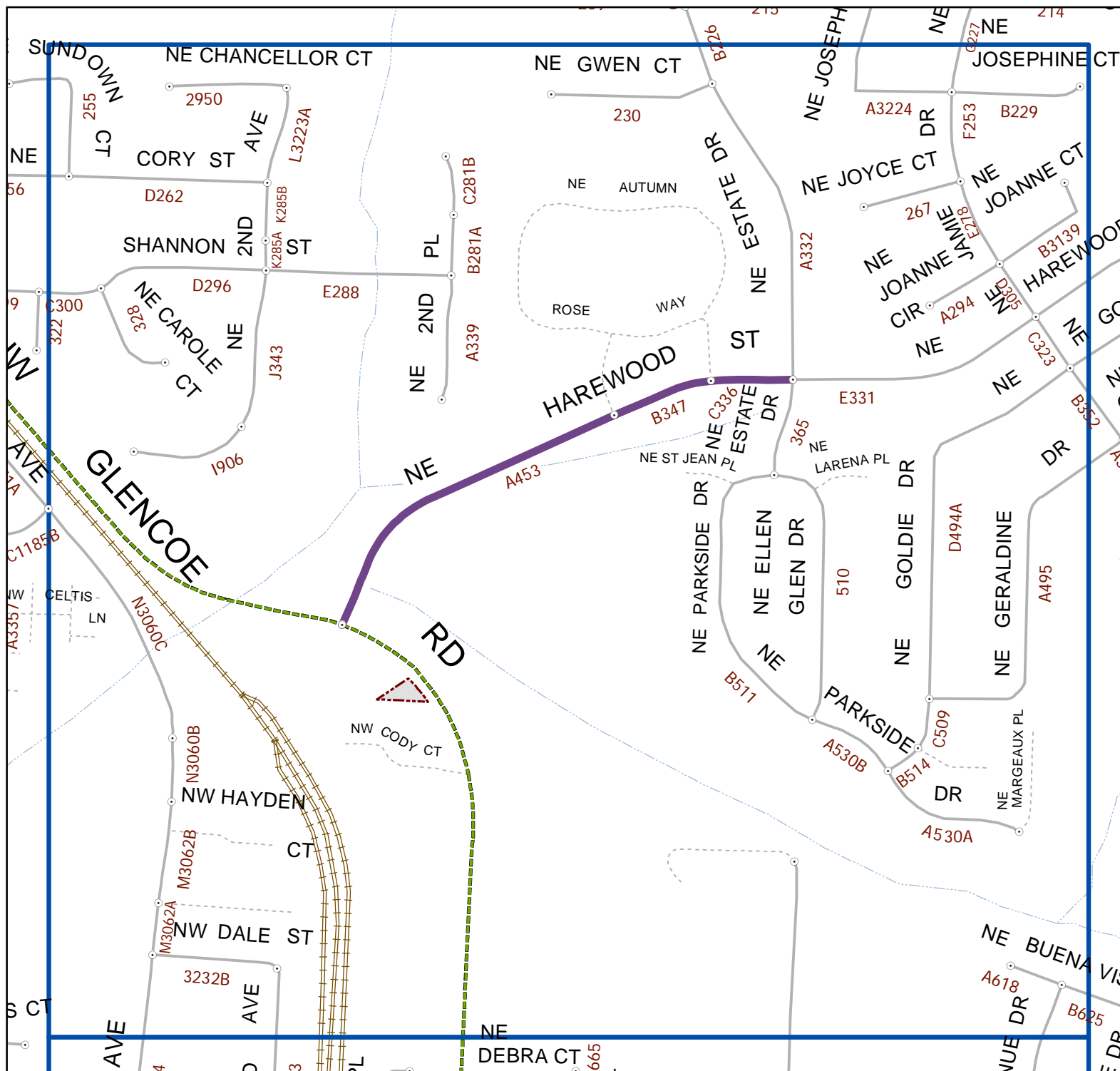
-  City Roadway  
 City Alley  
 Unimproved City ROW  
 Private  
 County Road  
 State Highway  
 Light Rail  
 Heavy Rail  
 Stream  
 River



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**Template A2**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY		RPMS		THERMOPLASTIC PAVEMENT MARKINGS					GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	BLUE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	4" WHITE (LF)	8" WHITE (LF)	BIKE SYMBOL W/ARROW		
A453	NE HAREWOOD ST	E/S GLENCOE RD	C/L AUTUMN ROSE WAY (W)	1057	38	0	4463	3	2	1	25	1998	22	2121	2020	2	TUE	2-LANE STOP BAR=1; ADD BIKE BUFFER LANE - SEE DRAWING
B347	NE HAREWOOD ST	C/L AUTUMN ROSE WAY (W)	C/L AUTUMN ROSE WAY (E)	300	38	0	1267	3	2	1	7	510	0	578	550	1	TUE	ADD BIKE BUFFER LANE - SEE DRAWING
C336	NE HAREWOOD ST	C/L AUTUMN ROSE WAY (E)	32FT (W) C/L ESTATE DR	208	38	0	878	0	0	0	20	548	0	170	390	1	TUE	ADD BIKE BUFFER LANE - SEE DRAWING
TEMPLATE TOTALS							6,608	6	4	2	52	3,056	22	2,869	2,960	4		

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**Template B1**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY			RPMS			THERMOPLASTIC PAVEMENT MARKINGS						GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	WATER VALVES	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	4" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW		
A422A	NE 15TH AVE	N/S SUNRISE LN	BEG C/G (W)	156	21	0	364	1	0	0	0	0	0	0	18	20	0	0	0	THUR	STOP BAR=1
A422B	NE 15TH AVE	BEG C/G (W)	C/L THOMAS ST	99	32	0	352	2	0	0	1	0	0	0	0	0	0	0	0	THUR	
B371A	NE 15TH AVE	C/L THOMAS ST	C/L BIRKSHIRE CT	269	30	0	897	1	0	0	0	0	0	0	0	0	0	0	0	THUR	
B371B	NE 15TH AVE	C/L BIRKSHIRE CT	END C/G (W)	118	30	0	393	1	1	0	0	0	0	0	0	0	0	0	0	THUR	
B371C	NE 15TH AVE	END C/G (W)	C/L KATHRYN ST	306	23	0	782	1	1	0	1	0	0	0	0	0	0	0	0	THUR	
C276	NE 15TH AVE	C/L KATHRYN ST	C/L GRIFFIN OAKS ST	319	27	0	1001	2	2	3	0	0	0	0	0	13	0	0	0	THUR	
D249A	NE 15TH AVE	C/L GRIFFIN OAKS ST	BEG TURN LN (E)	543	37	0	2289	1	6	0	1	0	13	1024	26	170	0	0	0	THUR	2-LANE STOP BAR=1
D249B	NE 15TH AVE	BEG TURN LN (E)	C/L JONES FARM PKWY	303	53	0	1784	0	2	0	0	18	20	836	0	0	464	2	2	THUR	
<b>TEMPLATE TOTALS</b>							<b>7,862</b>	<b>9</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>18</b>	<b>33</b>	<b>1,860</b>	<b>44</b>	<b>203</b>	<b>464</b>	<b>2</b>	<b>2</b>		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.



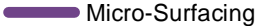
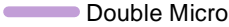




# Schedule "B" Micro-Surfacing



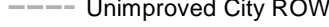
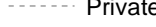


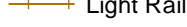



March 2013

**B2**

## Legend

-  Section Node
-  Light Rail Station
-  Micro-Surfacing
-  Double Micro
-  Template Boundary
-  City Limits

## Roadway Jurisdiction

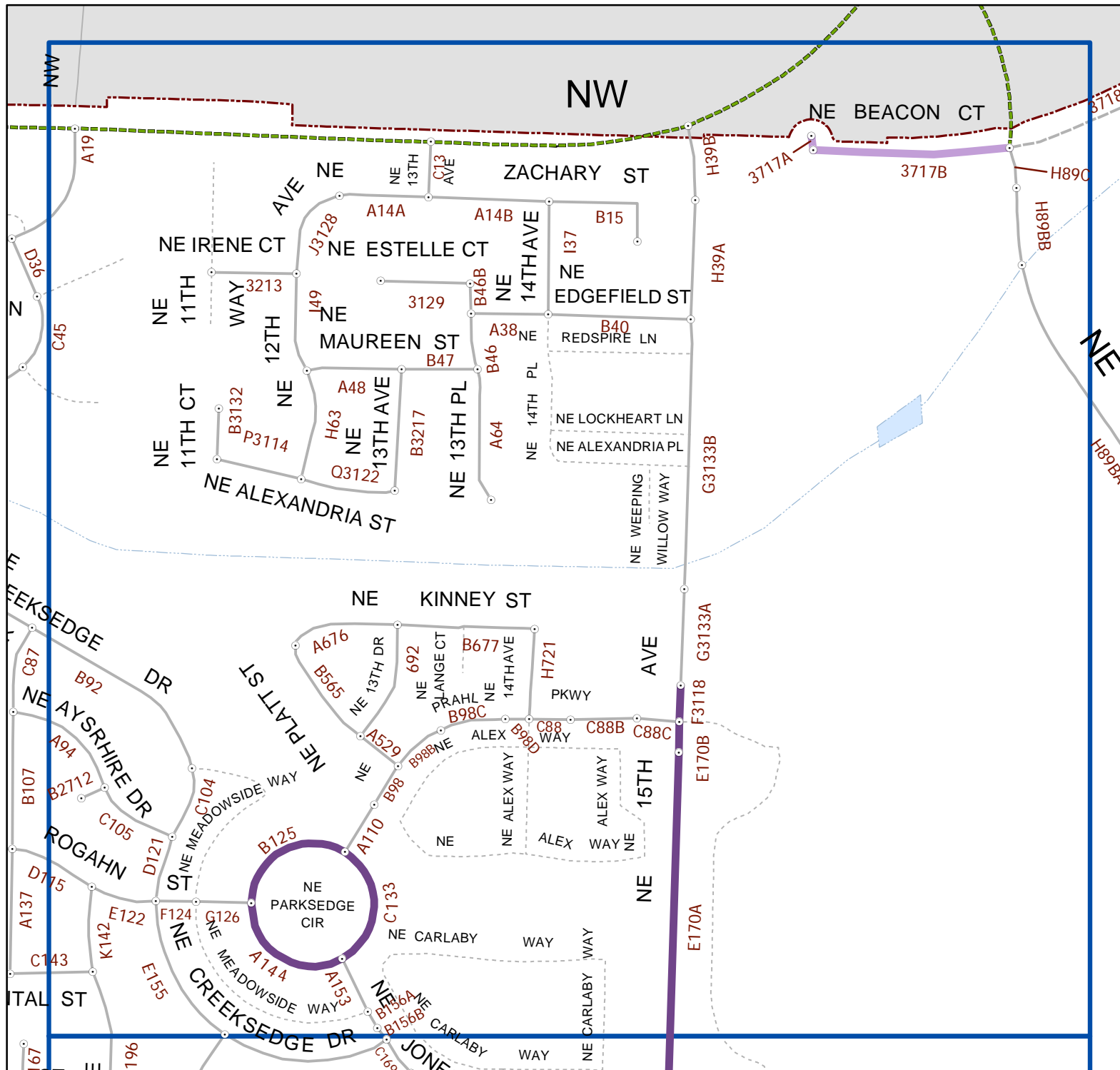
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



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**Template B2**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY						RPMS			THERMOPLASTIC PAVEMENT MARKINGS						GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	WATER VALVES	LOOP BOX	PIN	MON BOX	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	4" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW		
E170A	NE 15TH AVE	C/L JONES FARM PKWY	BEG TURN LN (E)	828	38	0	3496	0	5	0	0	1	0	3	14	62	2004	0	206	0	6	0	THUR	
E170B	NE 15TH AVE	BEG TURN LANE (E)	C/L PRAHL PKWY	219	53	0	1290	1	2	0	0	0	0	0	19	28	644	0	0	276	2	2	THUR	
F3118	NE 15TH AVE	C/L PRAHL PKWY	PVMT CHNG	116	38	0	490	0	0	0	0	0	0	1	5	9	152	0	0	76	2	0	THUR	
3717A	NE BEACON CT	WEST END	W/S 25TH AVE	633	34	0	5456	0	0	1	2	0	2	2	0	0	0	30	0	0	0	0	THUR	WTR PJCT COMPL JULY 1ST; STOP BAR=1; DOUBLE MICRO (AREA ACCOUNTS FOR DOUBLE APPLICATION)
3717B	NE BEACON CT (SPUR)	N/S BEACON CT	NORTH END	60	85	0	1806	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	THUR	WTR PJCT COMPL JULY 1ST; DOUBLE MICRO (AREA ACCOUNTS FOR DOUBLE APPLICATION)
A144	NE PARKSEDGE CIR	JONES FARM PKY	ROGAHN ST	379	21	0	884	3	1	0	0	0	0	1	0	0	0	0	0	0	0	0	THUR	MOSS
B125	NE PARKSEDGE CIR	ROGAHN ST	PRAHL PKWY	385	21	0	898	4	1	0	0	0	1	1	0	0	0	0	0	0	0	0	THUR	MOSS
C133	NE PARKSEDGE CIR	PRAHL PKWY	JONES FARM PKWY	385	21	0	898	4	1	0	0	0	2	0	0	0	0	0	0	0	0	0	THUR	MOSS
TEMPLATE TOTALS							15,218	12	10	1	2	1	6	8	38	99	2,800	30	206	352	10	2		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

2013 Pavement Management Program  
#20552222-6102

## Schedule "B" Micro-Surfacing











March 2013

**C1**

### Legend

- Section Node
- Light Rail Station
- Micro-Surfacing
- Double Micro
- Template Boundary
- City Limits

## Roadway Jurisdiction

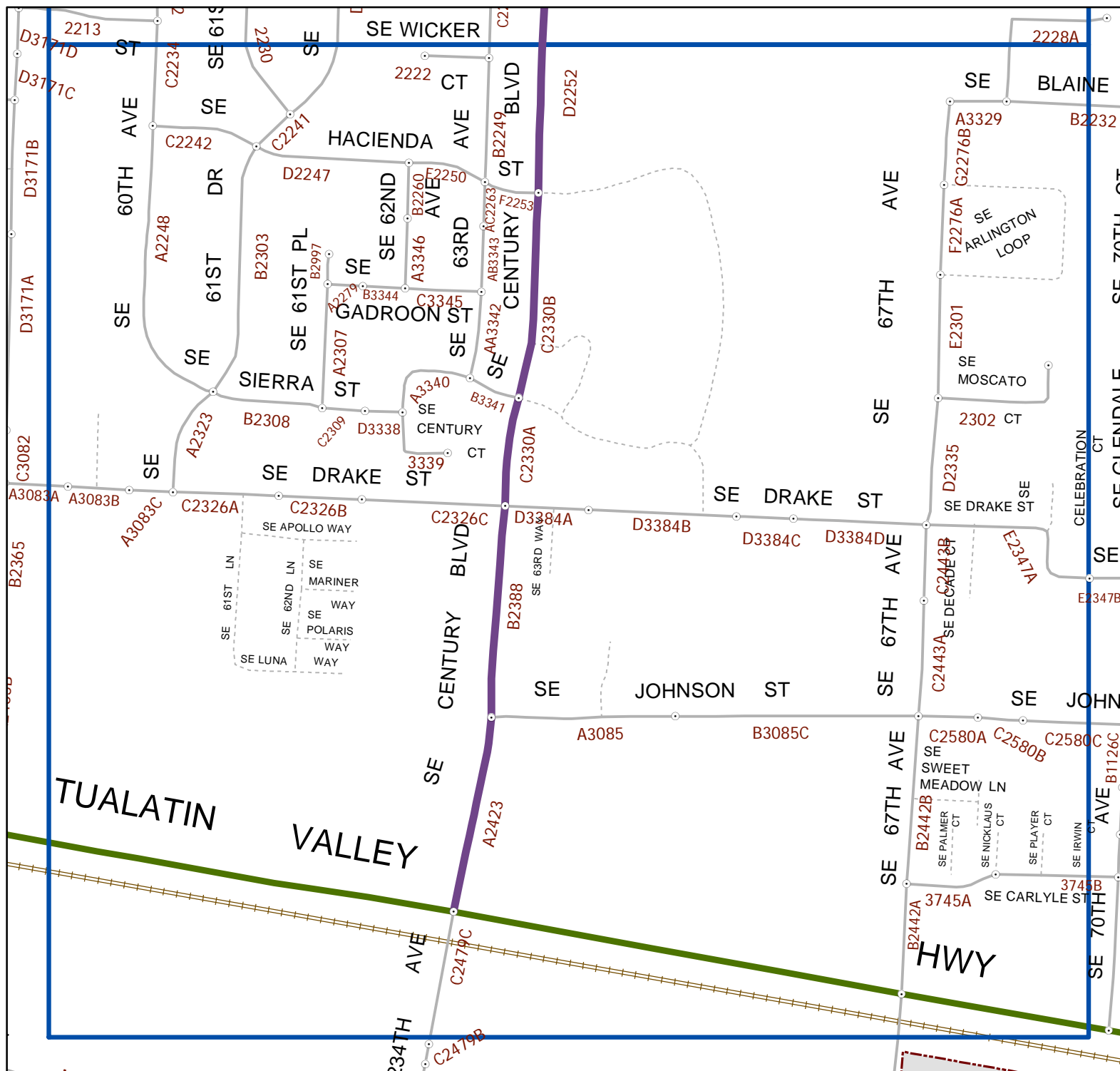
-  City Roadway  
 City Alley  
 Unimproved City ROW  
 Private  
 County Road  
 State Highway  
 Light Rail  
 Heavy Rail  
 Stream  
 River



1 inch = 400 feet

## DISCLAIMER

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**Template C1**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY				RPMS			THERMOPLASTIC PAVEMENT MARKINGS							GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	WATER VALVES	PIN	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	4" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW	BIKE SYMBOL W/ARROW		
A2423	SE CENTURY BLVD	N/S TV HWY	C/L JOHNSON ST	564	60	0	3760	3	0	1	4	2	16	54	1121	162	0	1083	3	2	5	WED	4-LANE STD XWALK=1; ADJUST BIKE LANE @ JOHNSON AND RIGHT LANE DROP FROM TV HWY
B2388	SE CENTURY BLVD	C/L JOHNSON ST	N/S DRAKE ST	635	48	0	3387	3	0	0	1	1	15	63	1234	122	0	1328	4	0	2	WED	3-LANE STD XWALK=1; BIKE SYMBOLS ONLY AT BEG EACH END OF SECTION FOR TOTAL OF TWO
C2330A	SE CENTURY BLVD	N/S DRAKE ST	C/L PEGASUS ST	305	48	0	1627	2	0	0	0	0	8	34	600	31	0	637	2	0	2	WED	2-LANE STOP BAR=1; BIKE SYMBOLS ONLY AT BEG EACH END OF SECTION FOR TOTAL OF TWO
C2330B	SE CENTURY BLVD	C/L PEGASUS ST	C/L HACIENDA ST	610	48	0	3253	3	1	0	0	2	0	36	1504	160	0	1102	4	0	3	WED	3-LANE HI-VIS; ADD LTA - ONE SET NORTH OF PEGASUS & ONE SET SOUTH OF HACIENDA
D2252	SE CENTURY BLVD	C/L HACIENDA ST	C/L GOBOES CT	629	48	0	3355	1	1	0	0	0	0	36	1514	0	0	1120	4	0	3	WED	ADD LTA - ONE SET NORTH OF HACIENDA & ONE SET SOUTH OF GOBOES; ADJUST BULLNOSE @ HACIENDA TO REMAIN OPEN AS CONTINUOUS TO INT
<b>TEMPLATE TOTALS</b>							<b>15,382</b>	<b>12</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>39</b>	<b>223</b>	<b>5,973</b>	<b>475</b>	<b>0</b>	<b>5,270</b>	<b>17</b>	<b>2</b>	<b>15</b>		




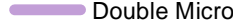


Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

# Schedule "B" Micro-Surfacing











March 2013

**C2**

## Legend

-  Section Node
-  Light Rail Station
-  Micro-Surfacing
-  Double Micro
-  Template Boundary
-  City Limits

## Roadway Jurisdiction

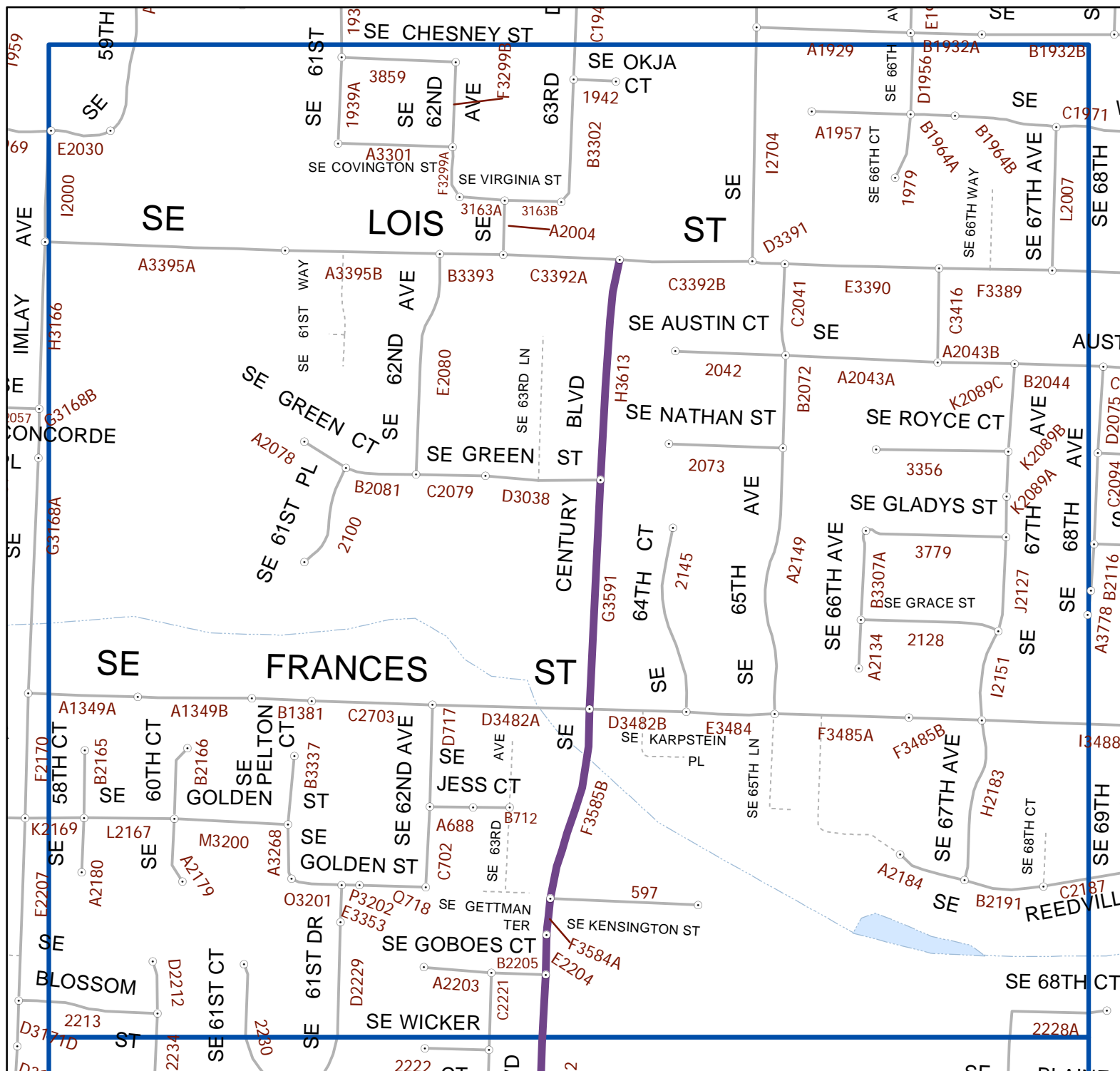
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



1 inch = 400 feet

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**Template C2**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY				RPMS			THERMOPLASTIC PAVEMENT MARKINGS						GARBAGE DAY	COMMENTS
								MANHOLES	CATCH BASINS	WATER VALVES	PIN	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW	BIKE SYMBOL W/ARROW		
E2204	SE CENTURY BLVD	C/L GOBOES CT	PVMT CHNG	111	48	0	592	3	0	0	0	0	0	7	247	0	194	0	0	0	WED	
F3584A	SE CENTURY BLVD	PVMT CHNG	C/L KENSINGTON ST	115	44	0	562	0	1	0	0	0	0	8	230	0	200	0	0	0	WED	
F3585B	SE CENTURY BLVD	C/L KENSINGTON ST	C/L FRANCES ST	576	44	0	2816	1	4	7	1	2	8	52	1180	100	1147	4	0	2	WED	3-LANE STD XWALK=1; ADD LTA - ONE SET NORTH OF KENSINGTON; ADD BIKE SYMBOL
G3591	SE CENTURY BLVD	C/L FRANCES ST	C/L GREEN ST	668	44	0	3266	3	4	0	0	0	14	74	1104	100	1420	4	0	2	TUE	3-LANE STD XWALK=1
H3613	SE CENTURY BLVD	C/L GREEN ST	S/S LOIS ST	648	44	0	3168	2	3	4	0	1	7	63	1414	120	1344	4	2	2	TUE	3-LANE STD XWALK=1; ADD LTA - ONE SET APPROX 250FT NORTH OF GREEN ST
<b>TEMPLATE TOTALS</b>							<b>10,404</b>	<b>9</b>	<b>12</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>29</b>	<b>204</b>	<b>4,175</b>	<b>320</b>	<b>4,305</b>	<b>12</b>	<b>2</b>	<b>6</b>		




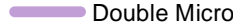


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# Schedule "B" Micro-Surfacing



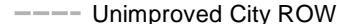



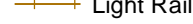
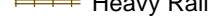


March 2013

D1

## Legend

-  Section Node
-  Light Rail Station
-  Micro-Surfacing
-  Double Micro
-  Template Boundary
-  City Limits

## Roadway Jurisdiction

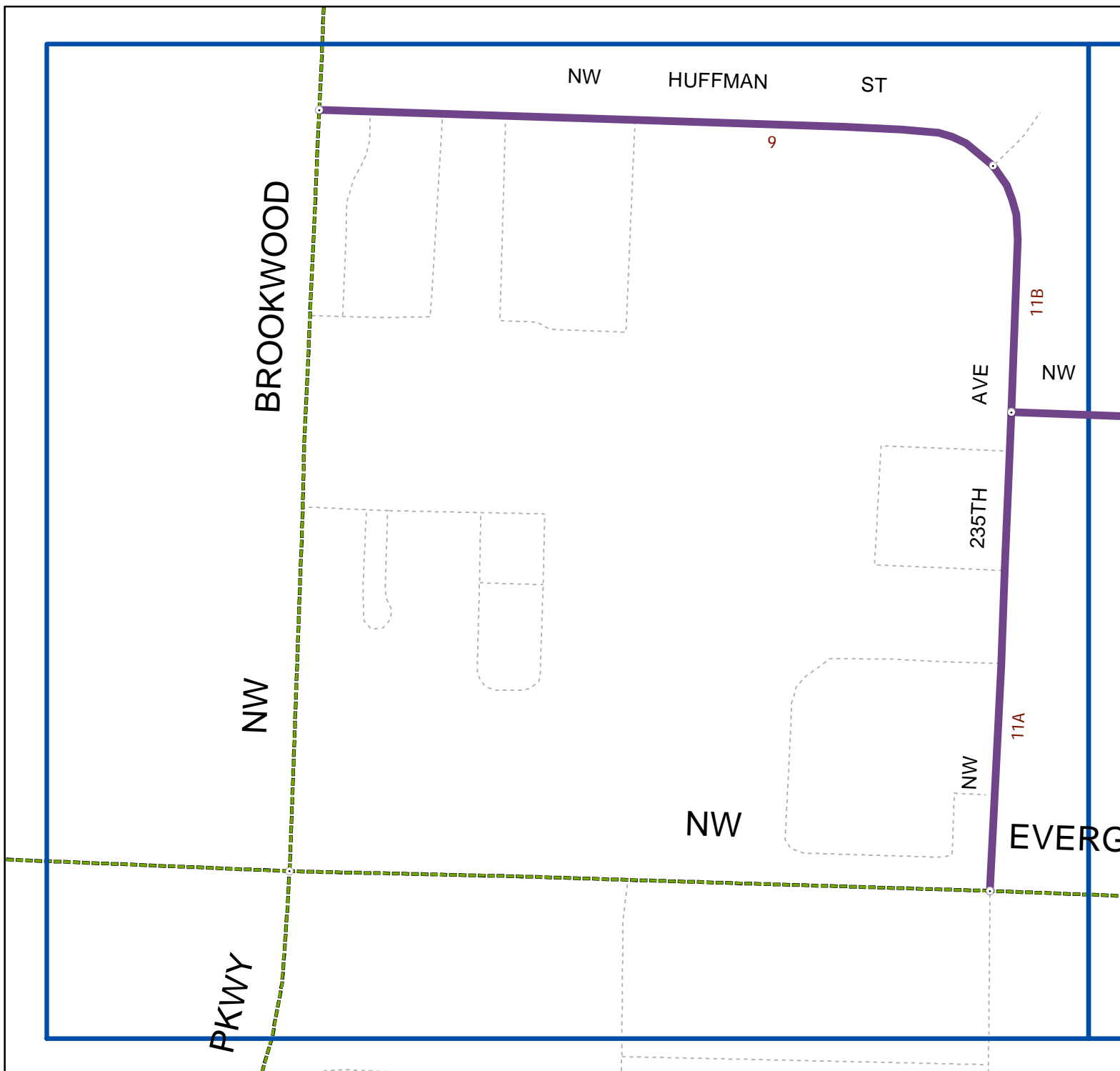
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



1 inch = 400 feet

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**Template D1**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY					RPMS			THERMOPLASTIC PAVEMENT MARKINGS							GARBAGE DAY	COMMENTS
								MANHOLES	WATER VALVES	GAS VALVES	PGE/GTE MANHOLES	PIN	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW	RIGHT/THRU ARROW	BIKE SYMBOL W/ARROW		
11A	NW 235TH AVE	N/S EVERGREEN PKWY	C/L BENNETT ST	1373	38	0	5797	5	2	0	0	0	3	11	32	2784	110	2054	2	0	2	2	TUE	3-LANE XWALK=1
11B	NW 235TH AVE	C/L BENNETT ST	HUFFMAN ST	725	48	0	3867	2	7	0	2	1	4	14	45	1478	0	1570	4	0	0	4	TUE	
9	NW HUFFMAN ST	E/S SHUTE RD	235TH AVE	1993	48	0	10629	1	19	1	4	3	5	24	96	4642	43	4302	6	2	0	8	TUE	2-LANE STOP BAR=1
TEMPLATE TOTALS							20,293	8	28	1	6	4	12	49	173	8,904	153	7,926	12	2	2	14		

Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.









# Schedule "B" Micro-Surfacing









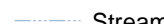

March 2013

D2

## Legend

-  Section Node
-  Light Rail Station
-  Micro-Surfacing
-  Double Micro
-  Template Boundary
-  City Limits

## Roadway Jurisdiction

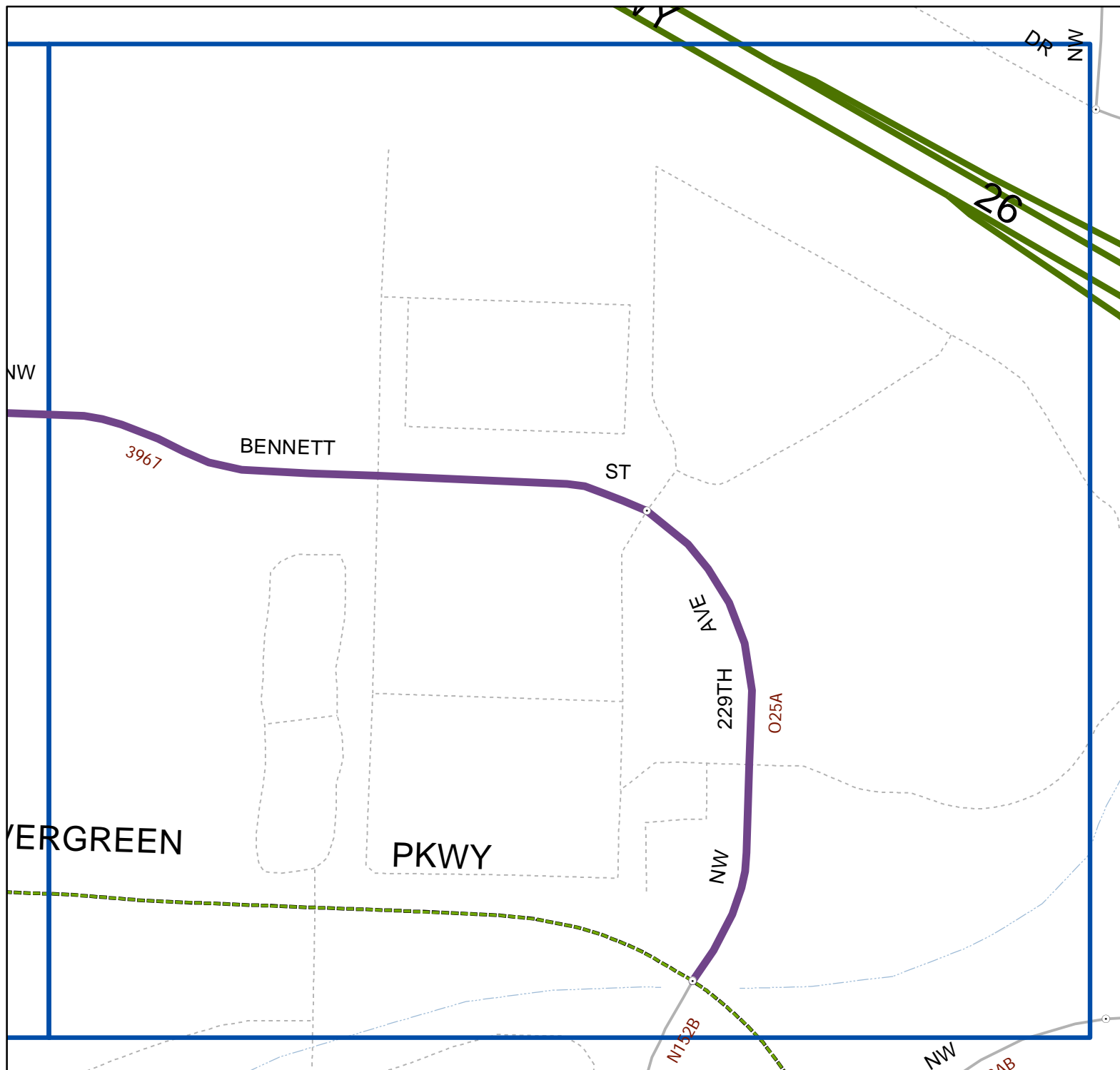
-  City Roadway
-  City Alley
-  Unimproved City ROW
-  Private
-  County Road
-  State Highway
-  Light Rail
-  Heavy Rail
-  Stream
-  River



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**Template D2**  
**Schedule "B": Micro-Surfacing**  
**2013 Pavement Management Program**  
**#20552222-6102**

SECTION ID	STREET	BEGIN	END	LENGTH	WIDTH	CDS?	AREA (SQYD)	EXISTING UTILITIES & SURVEY				RPMS			THERMOPLASTIC PAVEMENT MARKINGS						GARBAGE DAY	COMMENTS
								MANHOLES	WATER VALVES	PGE/GTE MANHOLES	MON BOX	BLUE	WHITE	YELLOW	4" YELLOW (LF)	12" WHITE (LF)	8" WHITE (LF)	LEFT TURN ARROW	RIGHT TURN ARROW	BIKE SYMBOL W/ARROW		
O25A	NW 229TH AVE	N/S EVERGREEN PKWY	NW BENNET ST	1442	48	0	7691	2	11	3	4	3	8	84	990	203	2943	8	0	3	TUE	5-LANE XWALK=1
3967	NW BENNETT ST	E/S 235TH AVE	229TH AVE	2069	48	0	11035	2	16	4	3	9	8	102	5040	36	4200	8	2	7	TUE	2-LANE STOP BAR=1
TEMPLATE TOTALS							18,726	4	27	7	7	12	16	186	6,030	239	7,143	16	2	10		

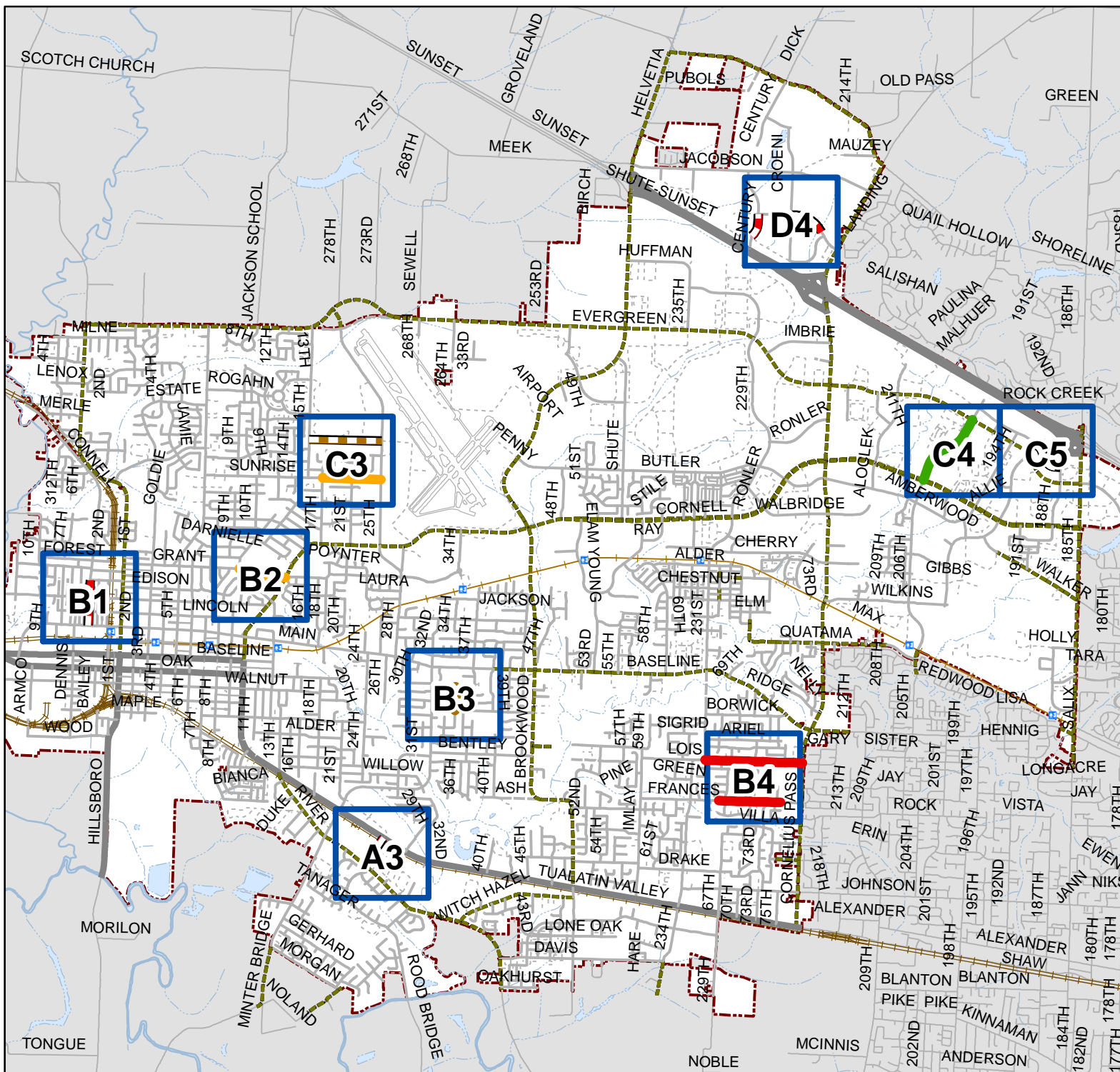
Note: Sections that are on the edge of a template were generally assigned to the template where the Section ID is displayed. Check adjacent templates if quantity information is missing.

**City of Hillsboro  
2013 Pavement Management Program  
Contract #20552222-6102**

**Schedule "C": Overlays & AC Replacements**



**Engineering Division  
150 E Main Street, Fourth Floor  
Hillsboro, OR 97123  
Phone: 503-681-6416**



2013 Pavement Management Program  
#20552222-6102

# Schedule "C" Overlays & AC Replacements

April 2013  
Overview

## Legend

- AC Replacements
- Concrete Panel Replacement
- Level 2**
  - 1" Skin Patch
  - 2" Full Width Grind, 2.5" Overlay
- Level 3**
  - 3.5" Full Width Grind, 4" Overlay
  - 4" Full Width Grind, 4" Overlay
  - Rebuild: 16" Base/5" AC

- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



1 inch = 4,500 feet

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2013 Pavement Management Program  
#20552222-6102

# Schedule "C" Overlays & AC Replacements

April 2013  
**A3**

## Legend

- Section Node
- AC Replacements
- Concrete Panel Replacement
- Level 2**
  - 1" Skin Patch
  - 2" Full Width Grind, 2.5" Overlay
- Level 3**
  - 3.5" Full Width Grind, 4" Overlay
  - 4" Full Width Grind, 4" Overlay
  - Rebuild: 16" Base/5" AC
- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

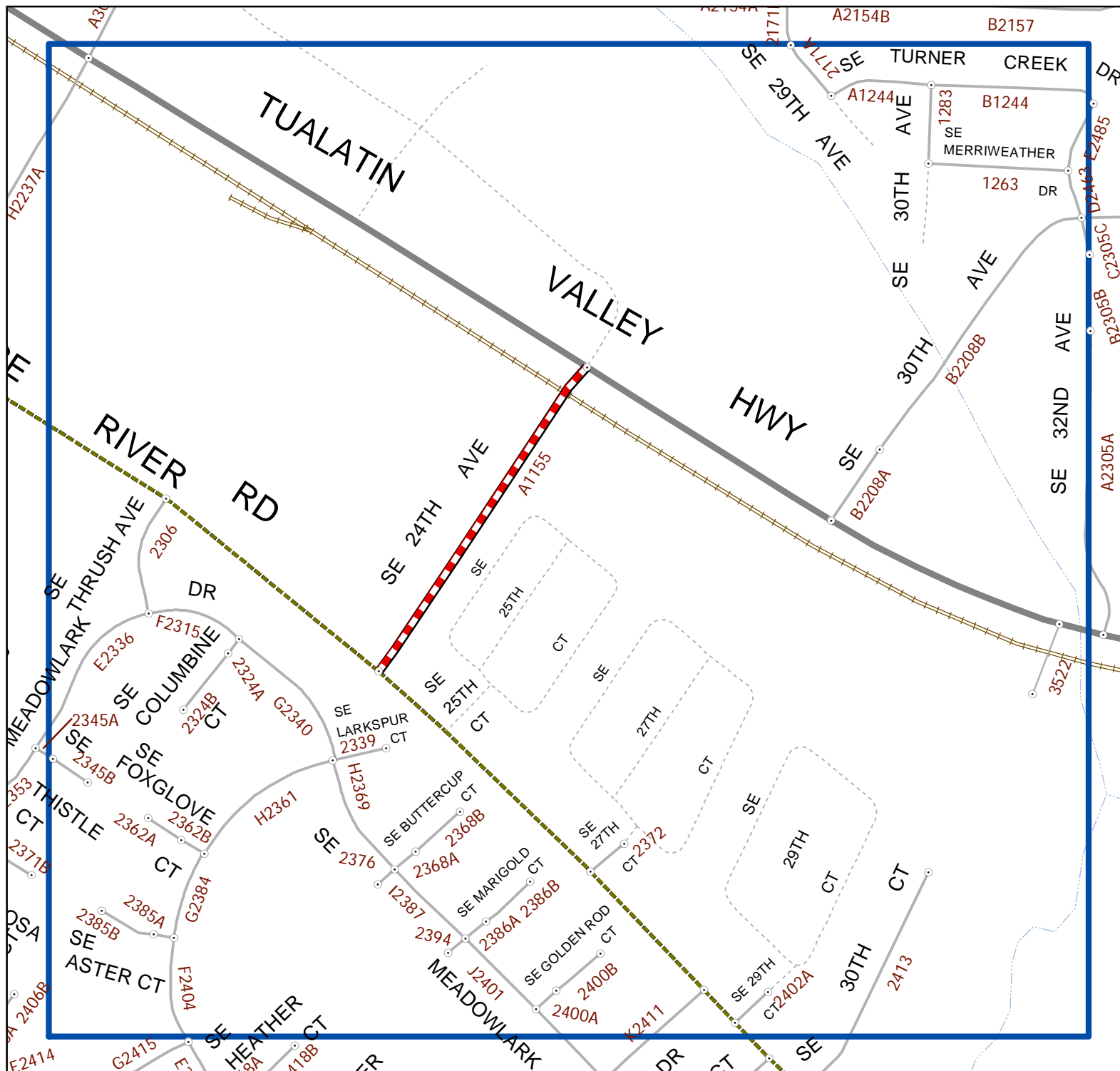
- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



1 inch = 400 feet

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**Template A3**  
**Schedule "C": Overlays and AC Replacements**  
 2013 Pavement Management Program  
 #20552222-6102

**AC REPLACEMENTS**

SECTION ID	STREET	FROM	TO	AC REMOVE (SQYD)	AC REPLACE (TON)	AC REMOVAL SIZE (FT)	COMMENTS
A1155	SE 24TH AVE	N/S RIVER RD	S/S TV HWY	523.11	145.31	(19*247)+(3*5)	IN DO: BRPM= 1, MH= 1, 8"W=142 FT, 4"Y=247 FT, YRPM= 5, BIKE= 1; 5" DEEP
<b>TEMPLATE TOTALS</b>				<b>523.11</b>	<b>145.31</b>		



2013 Pavement Management Program  
#20552222-6102

# Schedule "C" Overlays & AC Replacements

April 2013

B1

## Legend

- Section Node
- AC Replacements
- Concrete Panel Replacement
- Level 2**
- 1" Skin Patch
- 2" Full Width Grind, 2.5" Overlay
- Level 3**
- 3.5" Full Width Grind, 4" Overlay
- 4" Full Width Grind, 4" Overlay
- Rebuild: 16" Base/5" AC
- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



1 inch = 400 feet

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**Template B1**  
**Schedule "C": Overlays and AC Replacements**  
**2013 Pavement Management Program**  
**#20552222-6102**

**AC REPLACEMENTS**

SECTION ID	STREET	FROM	TO	AC REMOVE (SQYD)	AC REPLACE (TON)	AC REMOVAL SIZE (FT)	COMMENTS
B1242	NW CONNELL AVE	N/S W MAIN ST	C/L LINCOLN ST	189.78	52.72	(19*49)+(7*18)+(7*93)	IN DO: 12"W = 36FT, MH=1; 5" DEEP
C1150	NW CONNELL AVE	C/L LINCOLN ST	C/L JACKSON ST	251.22	69.78	(16*24)+(8*13)+(6*36) +(11*42)+(10*25)+(13*65)	IN DO: 4" Y = 10FT, BRPM=1, YRPM=2, WV=1; 5" DEEP
D1052	NW CONNELL AVE	C/L JACKSON ST	C/L RACHEL ST	169.56	47.10	(14*40)+(14*69)	IN DO: 4"Y = 10FT, YRPM=3, CB=1; 5" DEEP
<b>TEMPLATE TOTALS</b>				<b>610.56</b>	<b>169.60</b>		






2013 Pavement Management Program  
#20552222-6102

## Schedule "C" Overlays & AC Replacements



April 2013

**B2**

### Legend

-  Section Node  
 AC Replacements  
 Concrete Panel Replacement

## Level 2

-  1" Skin Patch
-  2" Full Width Grind, 2.5" Overlay

### Level 3

- 3.5" Full Width Grind, 4" Overlay
- 4" Full Width Grind, 4" Overlay
- Rebuild: 16" Base/5" AC

- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

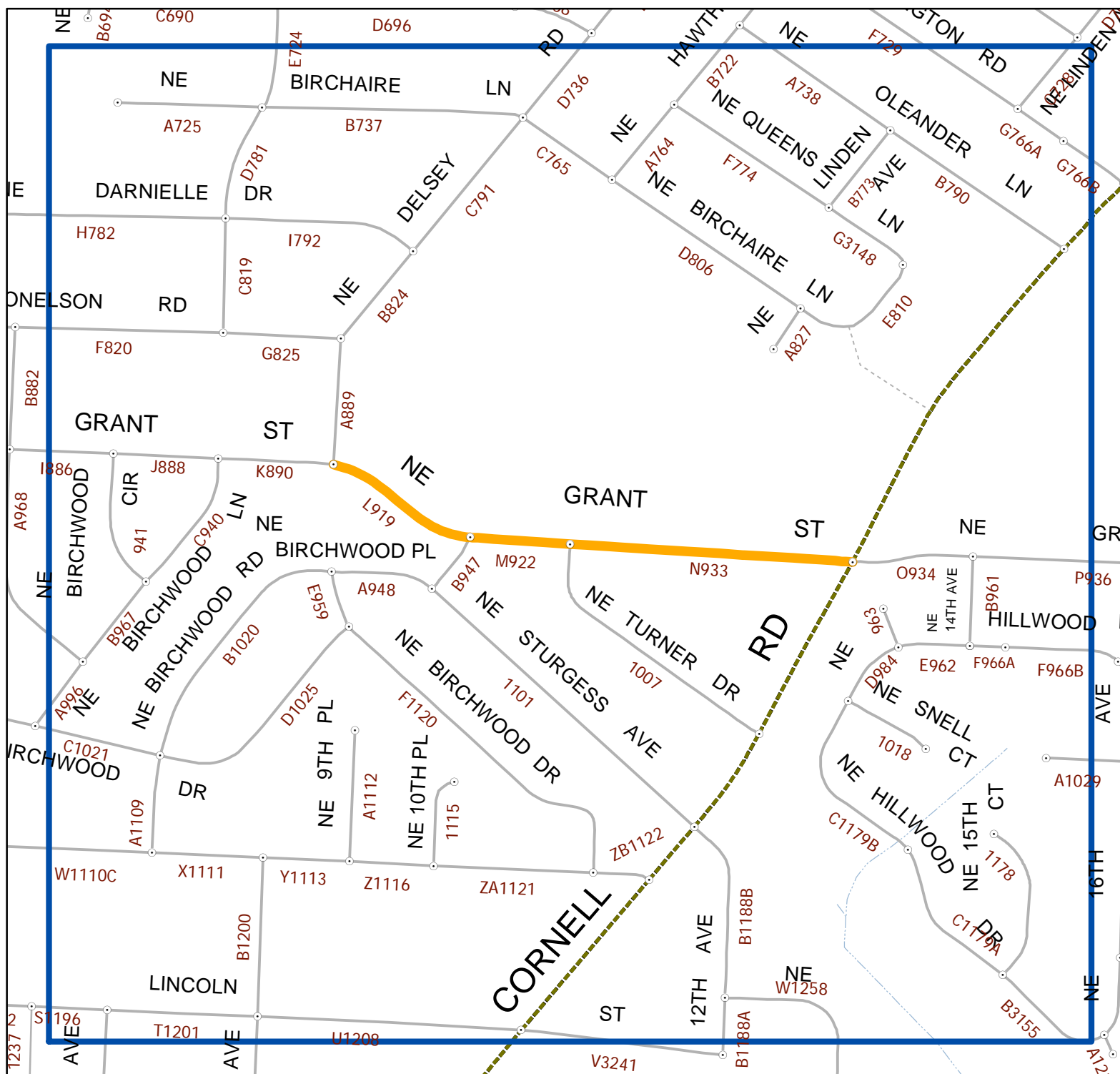
- City Roadway  
 — City Alley  
 - - - Unimproved City ROW  
 - - - Private  
 ■■■ County Road  
 ■ State Highway  
 + Light Rail  
 = Heavy Rail  
 - - - Stream  
 — River



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**Template B2**  
**Schedule "C": Overlays and AC Replacements**  
2013 Pavement Management Program  
#20552222-6102

**OVERLAYS**

SECTION ID	STREET	FROM	TO	TREATMENT	L	W	AREA (SQYD)	DIGOUTS		4" FULL WIDTH GRIND (SQ.YD.)	LEVEL 3, 1/2" DENSE GRADED ASPHALT	UTILITY ADJUST- MENTS		RPM'S		INLAY PAVEMENT MARKINGS		REMOVE/REPLACE RESIDENTIAL PCC DRIVEWAY (SF)	NOTES
								AC REMOVE (SQ YD)	AC REPLACE (TONS)		2" AC OVERLAY (TONS)	MANHOLES	WATER VALVES	BLUE RPM	YELLOW RPM	4" YELLOW (LF)	12" WHITE (LF)		
L919	NE GRANT ST	50FT W W/S DELSEY RD	C/L BIRCHWOOD PL	4"FWG, 4"OL	528	40	2421	48.41	8.07	2421	537.9	4	0	2	12	278	173	0	CB IN PCC=3; STOP BAR=1; STD XWALK=2; ADDED AREA @ DELSEY (18x37)
M922	NE GRANT ST	C/L BIRCHWOOD PL	C/L TURNER DR	4"FWG, 4"OL	295	40	1411	28.22	4.70	1411	313.6	1	1	1	7	70	16	0	ADDED AREA @ TURNER (25x36)
N933	NE GRANT ST	C/L TURNER DR	W/S CORNELL RD	4"FWG, 4"OL	804	40	3573	71.47	11.91	3573	794.1	3	1	2	22	292	102	924	CB IN PCC=1; STD XWALK=1; E DW @ HARE FIELD; DW#1194, DW#1188, DW#1186, DW#1138; COUNTY @ CORNELL
<b>TEMPLATE TOTALS</b>								<b>148.10</b>	<b>24.68</b>	<b>7405</b>	<b>1645.6</b>	<b>8</b>	<b>2</b>	<b>5</b>	<b>41</b>	<b>640</b>	<b>291</b>	<b>924</b>	



2013 Pavement Management Program  
#20552222-6102

# Schedule "C" Overlays & AC Replacements

April 2013  
**B3**

## Legend

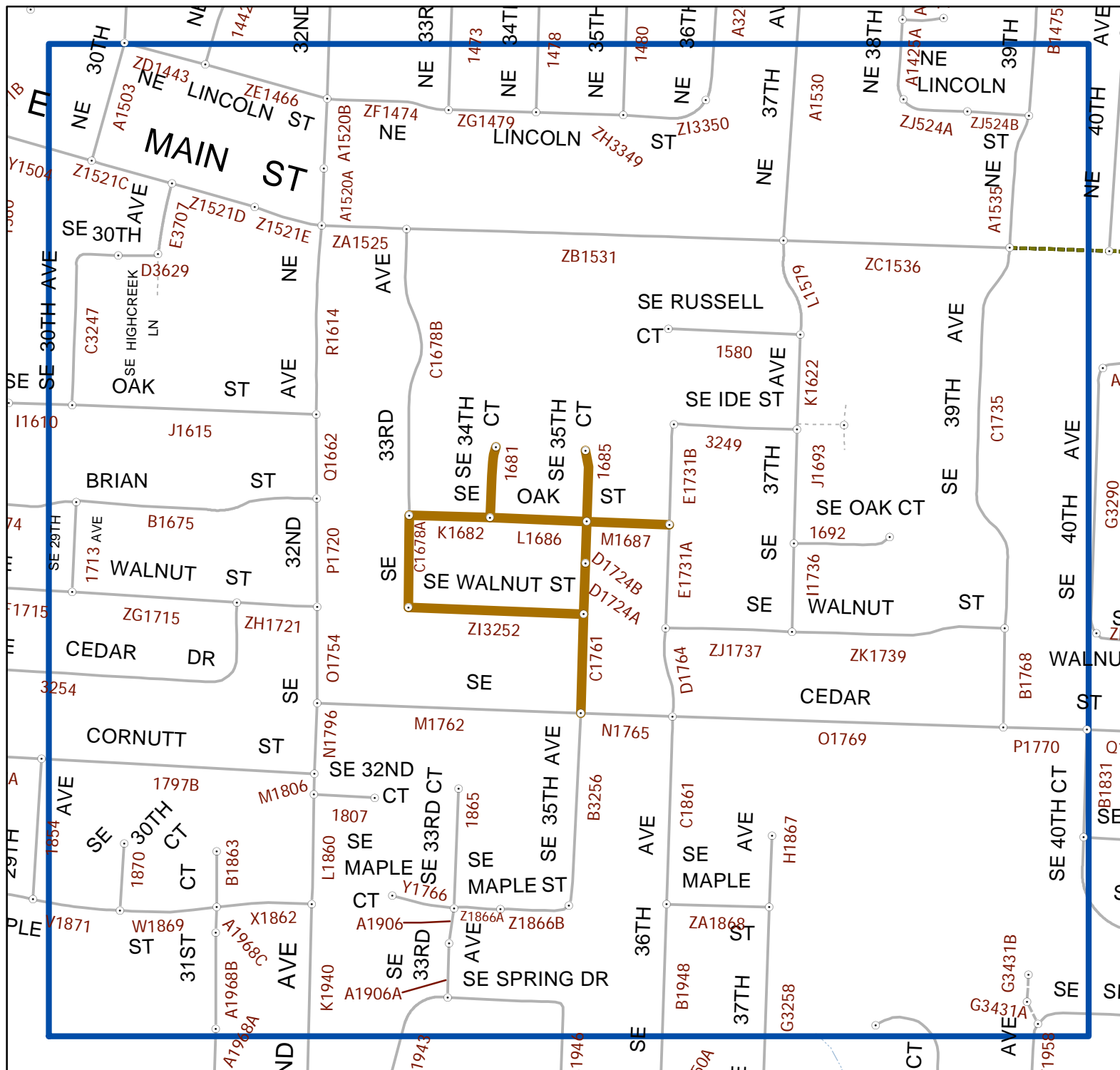
- Section Node
- AC Replacements
- Concrete Panel Replacement
- Level 2**
  - 1" Skin Patch
  - 2" Full Width Grind, 2.5" Overlay
- Level 3**
  - 3.5" Full Width Grind, 4" Overlay
  - 4" Full Width Grind, 4" Overlay
  - Rebuild: 16" Base/5" AC
- Light Rail Station
- Template Boundary
- City Limits
- Roadway Jurisdiction**
  - City Roadway
  - City Alley
  - Unimproved City ROW
  - Private
  - County Road
  - State Highway
  - Light Rail
  - Heavy Rail
  - Stream
  - River



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**Template B3**  
**Schedule "C": Overlays and AC Replacements**  
2013 Pavement Management Program  
#20552222-6102

**OVERLAYS**

SECTION ID	STREET	FROM	TO	TREATMENT	L	W	CDS?	AREA (SQYD)	BASE & DIGOUTS			2" FULL WIDTH GRIND (SQ.YD.)	LEVEL 2, 1/2" DENSE GRADED ASPHALT	UTILITY ADJUST- MENTS		RPM'S		INLAY PAVEMENT MARKINGS	NOTES	
									SUBGRADE STABILIZATION (CU.YD.)	AC REMOVE (SQ YD)	AC REPLACE (TONS)			MANHOLES	15" CLEANOUT	BLUE RPM	YELLOW RPM			12" WHITE (LF)
C1678A	SE 33RD AVE	C/L WALNUT ST	31 FT N C/L OAK ST	2"FWG, 2.5"OL	304	32	0.75	1500	0	29.99	5.00	1500	206.8	2	1	0	0	0	CB IN PCC=1	
1681	SE 34TH CT	N/S OAK ST	CDS	2"FWG, 2.5"OL	159	32	1	1124	562	22.47	3.75	1124	155.0	1	0	0	0	0	CB IN PCC=2; MAY NEED OVEREX @ 12" DEEP	
C1761	SE 35TH AVE	N/S CEDAR ST	C/L WALNUT ST	2"FWG, 2.5"OL	277	36	0	1123	0	22.46	3.74	1123	154.9	3	0	1	0	17	CB IN PCC=4; STOP BAR=1; ADDED AREA @ CEDAR (8x17)	
D1724A	SE 35TH AVE	C/L WALNUT ST	PVMT CHNG (N P/L #446)	2"FWG, 2.5"OL	148	34	0	559	0	11.18	1.86	559	77.1	1	1	0	0	0		
D1724B	SE 35TH AVE	PVMT CHNG (N P/L #446)	S/S OAK ST	2"FWG, 2.5"OL	108	32	0	384	0	7.68	1.28	384	53.0	0	0	0	0	12	STOP BAR=1	
1685	SE 35TH CT	N/S OAK ST	CDS	2"FWG, 2.5"OL	157	32	1	1116	0	22.33	3.72	1116	154.0	2	0	0	0	13	CB IN PCC=2; STOP BAR=1	
K1682	SE OAK ST	E/S 33RD AVE	C/L 34TH CT	2"FWG, 2.5"OL	223	32	0	793	0	15.86	2.64	793	109.4	0	0	0	0	0	CB IN PCC=2	
L1686	SE OAK ST	C/L 34TH CT	C/L 35TH CT	2"FWG, 2.5"OL	284	32	0	1010	0	20.20	3.37	1010	139.3	2	0	1	0	0		
M1687	SE OAK ST	C/L 35TH CT	W/S 36TH AVE	2"FWG, 2.5"OL	223	32	0	793	0	15.86	2.64	793	109.4	1	0	1	0	0	CB IN PCC=2	
ZI3252	SE WALNUT ST	C/L 33RD AVE	W/S 35TH AVE	2"FWG, 2.5"OL	493	36	0	1972	0	39.44	6.57	1972	272.0	1	0	1	0	0	CB IN PCC=2	
TEMPLATE TOTALS									562	207.47	34.57	10,374	1,430.9	13	2	4	0	42		




2013 Pavement Management Program  
#20552222-6102

## Schedule "C" Overlays & AC Replacements



April 2013

**B4**




### Legend

-  Section Node  
 AC Replacements  
 Concrete Panel Replacement

## Level 2

-  1" Skin Patch
-  2" Full Width Grind, 2.5" Overlay

### Level 3

-  3.5" Full Width Grind, 4" Overlay
-  4" Full Width Grind, 4" Overlay
-  Rebuild: 16" Base/5" AC

-  Light Rail Station
-  Template Boundary
-  City Limits

## Roadway Jurisdiction

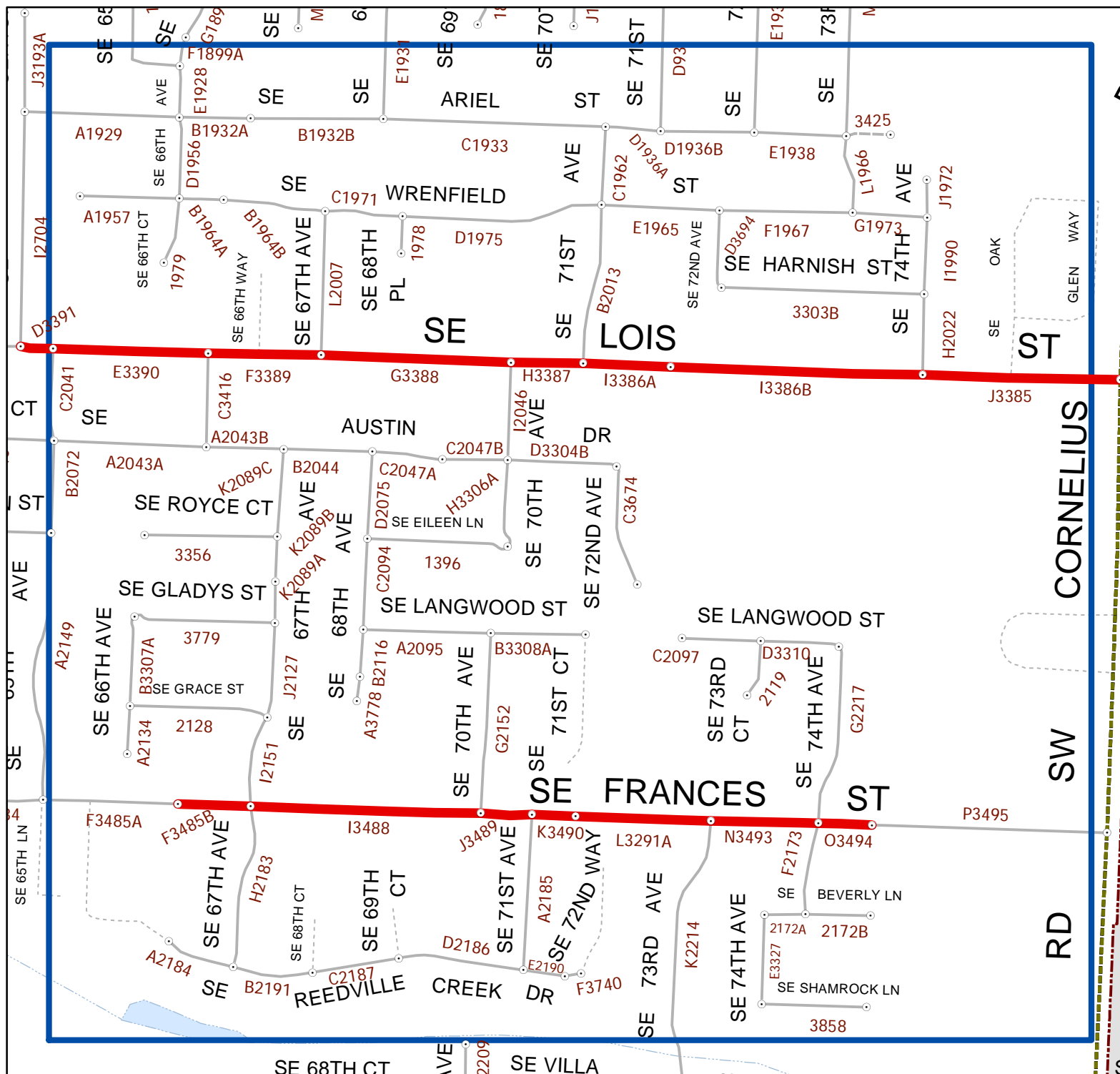
- City Roadway  
 — City Alley  
 - - - Unimproved City ROW  
 - - - Private  
 ■■■ County Road  
 ■ State Highway  
 + Light Rail  
 + Heavy Rail  
 - . - Stream  
 — River



1 inch = 400 feet

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**Template B4**  
**Schedule "C": Overlays and AC Replacements**  
2013 Pavement Management Program  
#20552222-6102

**OVERLAYS**

SECTION ID	STREET	FROM	TO	TREATMENT	L	W	AREA (SQYD)	BASE & DIGOUTS			3.5" FULL WIDTH GRIND (SQ.YD.)	LEVEL 3, 1/2" DENSE GRADED ASPHALT	UTILITY ADJUSTMENTS					SURVEY	RPM'S	INLAY PAVEMENT MARKINGS							REMOVE/REPLACE CURB & GUTTER (LF)	NOTES			
								SUBGRADE STABILIZATION (CU.YD.)	AC REMOVE (SQ.YD)	AC REPLACE (TONS)			MANHOLES	WATER VALVES	15" CLEANOUT	GAS VALVES	STE MANHOLE			ADJUST MONUMENT BOX	NEW MONUMENT BOX	BLUE RPM	YELLOW RPM	4" YELLOW (LF)	12" WHITE (LF)	8" WHITE (LF)			4" WHITE (LF)	"SCHOOL" LEGEND	BIKE SYMBOL W/ARROW
F3485B	SE FRANCES ST	W P/L #6672	C/L 67TH AVE	3.5"FWG, 4"OL	218	40	969	0	0	0.00	969	215.3	2	0	0	0	0	0	0	0	4	50	0	384	168	0	1	0	INLET=1; CB IN PCC=1; SMOOTH OUT BUMP @ 67TH		
I3488	SE FRANCES ST	C/L 67TH AVE	C/L 70TH AVE	3.5"FWG, 4"OL	679	40	3240	0	0	0.00	3240	719.9	5	7	0	0	0	0	1	2	15	160	36	1254	615	0	2	28	INLET=1; CB IN PCC=5; STOP BARS=2; ADDED AREA @ 67TH & 70TH (18x47)(25x46); CB FILLED W/PCC #6958		
J3489	SE FRANCES ST	C/L 70TH AVE	C/L 71ST AVE	3.5"FWG, 4"OL	147	40	653	0	0	0.00	653	145.2	0	1	0	1	0	0	1	0	2	30	0	232	92	0	1	0			
K3490	SE FRANCES ST	C/L 71ST AVE	WIDTH CHNG	3.5"FWG, 4"OL	155	40	689	0	13.78	2.30	689	153.1	1	1	0	0	0	0	0	0	3	40	0	283	79	0	1	0	CB IN PCC=1		
L3291A	SE FRANCES ST	WIDTH CHNG	C/L 73RD	3.5"FWG, 4"OL	374	34	1546	0	30.92	5.15	1546	343.5	0	3	1	0	0	0	0	0	8	80	24	722	0	0	1	0	CB IN PCC=4; STOP BAR=1; ADDED AREA @ 73RD (23x52)		
N3493	SE FRANCES ST	C/L 73RD AVE	C/L 74TH AVE	3.5"FWG, 4"OL	313	40	1607	0	32.13	5.36	1607	357.0	5	0	0	1	1	0	2	0	6	70	30	540	0	0	2	0	CB IN PCC=2; STOP BARS=2; ADDED AREA @74TH (19x49)(24x42)		
O3494	SE FRANCES ST	C/L 74TH AVE	WIDTH CHNG	3.5"FWG, 4"OL	168	40	747	0	14.93	2.49	747	165.9	1	5	0	0	0	0	0	0	4	64	176	298	0	0	1	0	HIVIS XWALK=1		
D3391	SE LOIS ST	68FT W C/L CENTURY BLVD (W	C/L 65TH AVE	3.5"FWG, 4"OL	163	36	898	0	449.17	74.86	898	199.6	3	4	0	1	0	1	2	1	0	0	45	0	0	0	0	0	STOP BARS=2; ADDED AREA @ CENTURY & 65TH (15x55)(29x48)		
E3390	SE LOIS ST	C/L 65TH AVE	C/L 66TH AVE	3.5"FWG, 4"OL	453	34	1821	0	910.50	151.75	1821	404.7	1	1	0	1	0	0	1	0	0	0	16	0	0	0	0	0	4 CB IN PCC=4; STOP BAR=1; ADDED AREA @ 66TH (21x47)		
F3389	SE LOIS ST	C/L 66TH AVE	C/L 67TH AVE	3.5"FWG, 4"OL	335	34	1344	0	26.88	4.48	1344	298.6	1	1	0	1	0	1	1	0	0	0	18	0	0	0	0	0	CB IN PCC=1; STOP BAR=1; ADDED AREA @ 67TH (16x44)		
G3388	SE LOIS ST	C/L 67TH AVE	C/L 70TH AVE	3.5"FWG, 4"OL	559	34	2202	0	44.04	7.34	2202	489.3	5	3	0	0	0	0	0	1	0	0	16	0	0	0	0	0	CB IN PCC=1; STOP BAR=1; ADDED AREA @ 70TH (18x45)		
H3387	SE LOIS ST	C/L 70TH AVE	C/L 71ST AVE	3.5"FWG, 4"OL	214	34	900	900	18.01	3.00	900	200.1	1	0	0	0	0	1	1	0	0	0	18	0	0	0	0	0	CB IN PCC=1; STOP BAR=1; ADDED AREA @ 71ST (18x46); MAY NEED OVEREX @ 12" DEEP		
I3386A	SE LOIS ST	C/L 71ST AVE	PVMT CHNG (W P/L 7181)	3.5"FWG, 4"OL	254	34	960	0	19.19	3.20	960	213.2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CB IN PCC=2		
I3386B	SE LOIS ST	PVMT CHNG (W P/L 7181)	C/L 74TH AVE	3.5"FWG, 4"OL	733	34	2854	0	57.08	9.51	2854	634.2	5	0	0	0	0	1	1	1	0	0	13	0	0	1	0	0	CB IN PCC=5; STOP BAR=1; ADDED AREA @ 74TH (17x45)		
J3385	SE LOIS ST	C/L 74TH AVE	W/S CORNELIUS PASS RD	3.5"FWG, 4"OL	555	34	2129	0	42.58	7.10	2129	473.1	1	2	0	0	0	0	0	1	0	0	102	0	0	0	0	14	CB IN PCC=5; XWALK=1; ADDED AREA @ CPR (17x17); WASHCO @ CPR		
TEMPLATE TOTALS								900	1,659.21	276.54	22,559	5,012.7	31	30	1	5	1	4	10	6	42	494	494	3,713	954	1	9	42			




2013 Pavement Management Program  
#20552222-6102

## Schedule "C" Overlays & AC Replacements



April 2013

**C3**

### Legend

-  Section Node  
 AC Replacements  
 Concrete Panel Replacement

## Level 2

-  1" Skin Patch
-  2" Full Width Grind, 2.5" Overlay

### Level 3

- 3.5" Full Width Grind, 4" Overlay
- 4" Full Width Grind, 4" Overlay
- Rebuild: 16" Base/5" AC

- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

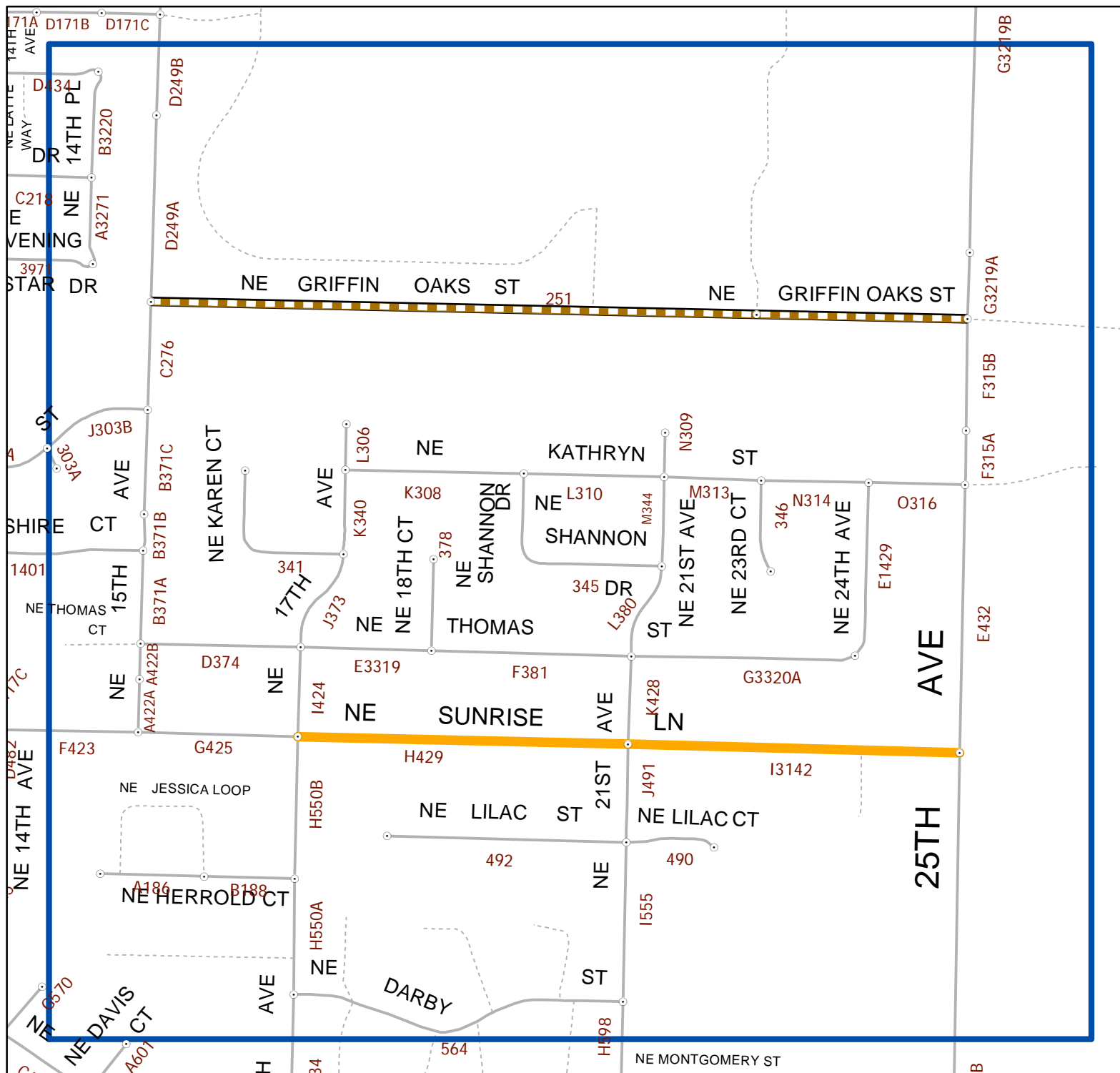
- City Roadway  
 — City Alley  
 - - - Unimproved City ROW  
 - - - Private  
 ■■■ County Road  
 ■ State Highway  
 + Light Rail  
 = Heavy Rail  
 - - - Stream  
 — River



1 inch = 400 feet

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**Template C3**  
**Schedule "C": Overlays and AC Replacements**  
 2013 Pavement Management Program  
 #20552222-6102

**1" SKIN PATCH**

SECTION ID	STREET	FROM	TO	1" AC SKIN PATCH (SQYD)	1" AC REPLACE (TON)	AC PATCH SIZE (FT)	COMMENTS
251	NE GRIFFIN OAKS ST	E/S 15TH AVE	W/S 25TH AVE	897.11	49.84	(69*11)+(43*11)+(45*11)+(50*11) +(34*11)+(170*11)+(40*11)+(78*11) +(51*11)+(61*11)+(24*11)+(69*11)	4 MHs IN PATCHES NEED
TEMPLATE TOTALS					49.84		

**OVERLAYS**

SECTION ID	STREET	FROM	TO	TREATMENT	L	W	AREA (SQYD)	SUBGRADE STABILIZATION (CU.YD.)	4" FULL WIDTH GRIND (SQ.YD.)	LEVEL 3, 1/2" DENSE GRADED ASPHALT	UTILITY ADJUST-MENTS			NEW SURVEY MONUMENT BOX	RPM'S		INLAY PAVEMENT MARKINGS			NOTES	
										2" AC OVERLAY (TONS)	MANHOLES	WATER VALVES	GAS VALVES		BLUE RPM	YELLOW RPM	4" YELLOW (LF)	12"WHITE (LF)	4" WHITE (LF)		
H429	NE SUNRISE LN	37FT W C/L 17TH AVE	C/L 21ST AVE	4"FWG, 4"OL	1002	36	4286	0	4286	952.4	3	4	1	1	1	25	246	74	8	CB IN PCC=5; STOP BARS=5; ADDED AREA @ 17TH & 21ST (13x40)(17x39)(40x14)	
I3142	NE SUNRISE LN	C/L 21ST AVE	W/S 25TH AVE	4"FWG, 4"OL	952	36	3808	1,269	3808	846.2	7	5	0	0	1	23	230	82	0	CB IN PCC=3; STD XWALK=1; <b>MAY NEED OVEREX @ 12" DEEP</b> ; ONE WV IS OLD STYLE	
TEMPLATE TOTALS									1,269	8,094	1,798.6	10	9	1	1	2	48	476	156	8	






2013 Pavement Management Program  
#20552222-6102

## Schedule "C" Overlays & AC Replacements

April 2013

## C4




### Legend

-  Section Node  
 AC Replacements  
 Concrete Panel Replacement

## Level 2

- 1" Skin Patch
- 2" Full Width Grind, 2.5" Overlay

### Level 3

-  3.5" Full Width Grind, 4" Overlay
-  4" Full Width Grind, 4" Overlay
-  Rebuild: 16" Base/5" AC

- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

- City Roadway  
 — City Alley  
 - - - Unimproved City ROW  
 - - - Private  
 ■■■ County Road  
 ■ State Highway  
 + Light Rail  
 = Heavy Rail  
 - - - Stream  
 — River



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**Template C4**  
**Schedule "C": Overlays and AC Replacements**  
2013 Pavement Management Program  
#20552222-6102

**OVERLAYS**

SECTION ID	ROAD	BEGIN	END	TREATMENT	L	W	AREA (SQYD)	SUBGRADE STABILIZATION (CU.YD.)	3" FULL WIDTH GRIND (SQ.YD.)	LEVEL 3, 1/2" DENSE GRADED ASPHALT		UTILITY ADJUST-MENTS		NEW SURVEY MONUMENT BOX	RPM'S			INLAY PAVEMENT MARKINGS						NOTES	
										2" AC OVERLAY	3" AC OVERLAY	MANHOLES	WATER VALVES		BLUE RPM	YELLOW RPM	WHITE RPM	4" YELLOW (LF)	12" WHITE (LF)	8" WHITE (LF)	4" WHITE (LF)	LEFT TURN ARROW	BIKE SYMBOL W/ARROW		
B430	NW JOHN OLSEN AVE	N/S CORNELL RD	C/L OVERLOOK DR (S)	REMOVE: 3"FWG/18"EXC REPLACE: 16"BASE/5"AC	1260	40	5600	2800	5600	622.2	933.3	0	5	1	2	60	10	3014	0	2624	0	6	4	INLETS=4; METAL LOOP POCKETS=2; COUNTY @ CORNELL; ADDING BIKE LANES	
C277	NW JOHN OLSEN AVE	C/L OVERLOOK DR (S)	C/L OVERLOOK DR (N)	REMOVE: 3"FWG/18"EXC REPLACE: 16"BASE/5"AC	855	40	3800	1900	3800	422.2	633.3	0	6	1	1	43	0	2125	0	1632	0	4	2	INLETS=6; ADDING BIKE LANES	
D223A	NW JOHN OLSEN AVE	C/L OVERLOOK DR (N)	WIDTH CHNG/POLE #60805	REMOVE: 3"FWG/18"EXC REPLACE: 16"BASE/5"AC	225	48	1200	600	1200	133.3	200.0	1	3	0	0	11	0	555	0	414	0	0	1	INLETS=2; ADDING BIKE LANES	
D223B	NW JOHN OLSEN AVE	WIDTH CHNG/POLE #60805	S/S EVERGREEN PKWY	REMOVE: 3"FWG/18"EXC REPLACE: 16"BASE/5"AC	251	60	1773	887	1773	197.0	295.6	1	0	0	0	12	15	609	152	565	90	2	1	INLETS=2; 5-LANE STD XWALK=1; LOOP POCKETS=2; COUNTY @ EVERGREEN; ADDING BIKE LANES	
TEMPLATE TOTALS									6,187	12,373	1,374.7	2,062.2	2	14	2	3	126	25	6,303	152	5,235	90	12	8	



2013 Pavement Management Program  
#20552222-6102

# Schedule "C" Overlays & AC Replacements

April 2013

C5

## Legend

- Section Node
- AC Replacements
- Concrete Panel Replacement
- Level 2**
  - 1" Skin Patch
  - 2" Full Width Grind, 2.5" Overlay
- Level 3**
  - 3.5" Full Width Grind, 4" Overlay
  - 4" Full Width Grind, 4" Overlay
  - Rebuild: 16" Base/5" AC
- Light Rail Station
- Template Boundary
- City Limits

## Roadway Jurisdiction

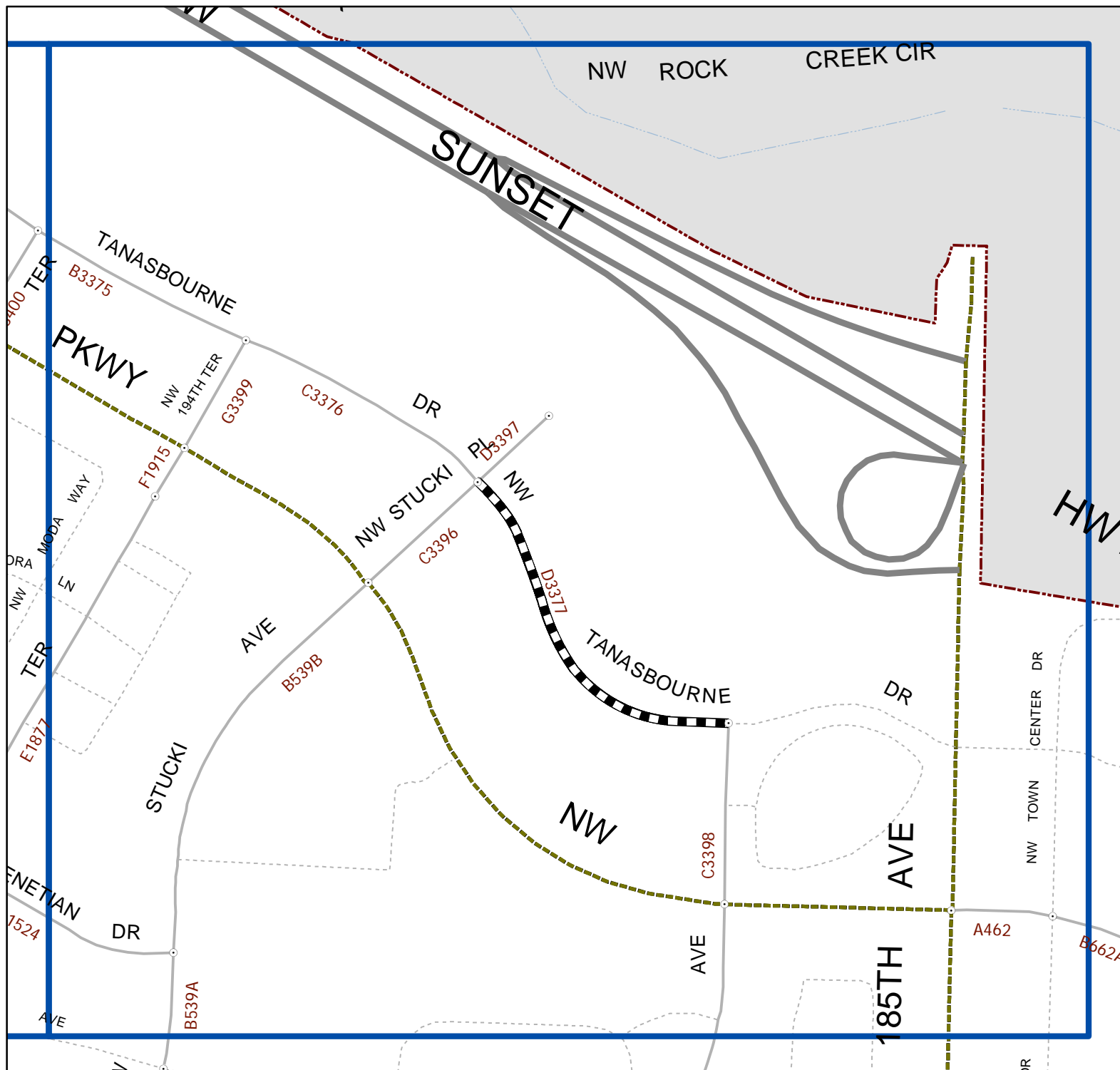
- City Roadway
- City Alley
- Unimproved City ROW
- Private
- County Road
- State Highway
- Light Rail
- Heavy Rail
- Stream
- River



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**Template C5**  
**Schedule "C": Overlays and AC Replacements**  
 2013 Pavement Management Program  
 #20552222-6102

**CONCRETE PANEL REPLACEMENT**

SECTION ID	STREET	FROM	TO	PCC PANEL REPLACEMENT (SQFT)	PCC PANEL SIZE (FT)	COMMENTS
D3377	NW TANASBOURNE DR	STUCKI PL	188TH AVE	140	(10*14)	4 MHs IN PATCHES NEED RISERS
TEMPLATE TOTALS				140		



2013 Pavement Management Program  
#20552222-6102

## Schedule "C" Overlays & AC Replacements

April 2013  
**D4**

### Legend

- Section Node
- AC Replacements
- Concrete Panel Replacement

### Level 2

- 1" Skin Patch
- 2" Full Width Grind, 2.5" Overlay

### Level 3

- 3.5" Full Width Grind, 4" Overlay
- 4" Full Width Grind, 4" Overlay
- Rebuild: 16" Base/5" AC

- Light Rail Station
- Template Boundary
- City Limits

### Roadway Jurisdiction

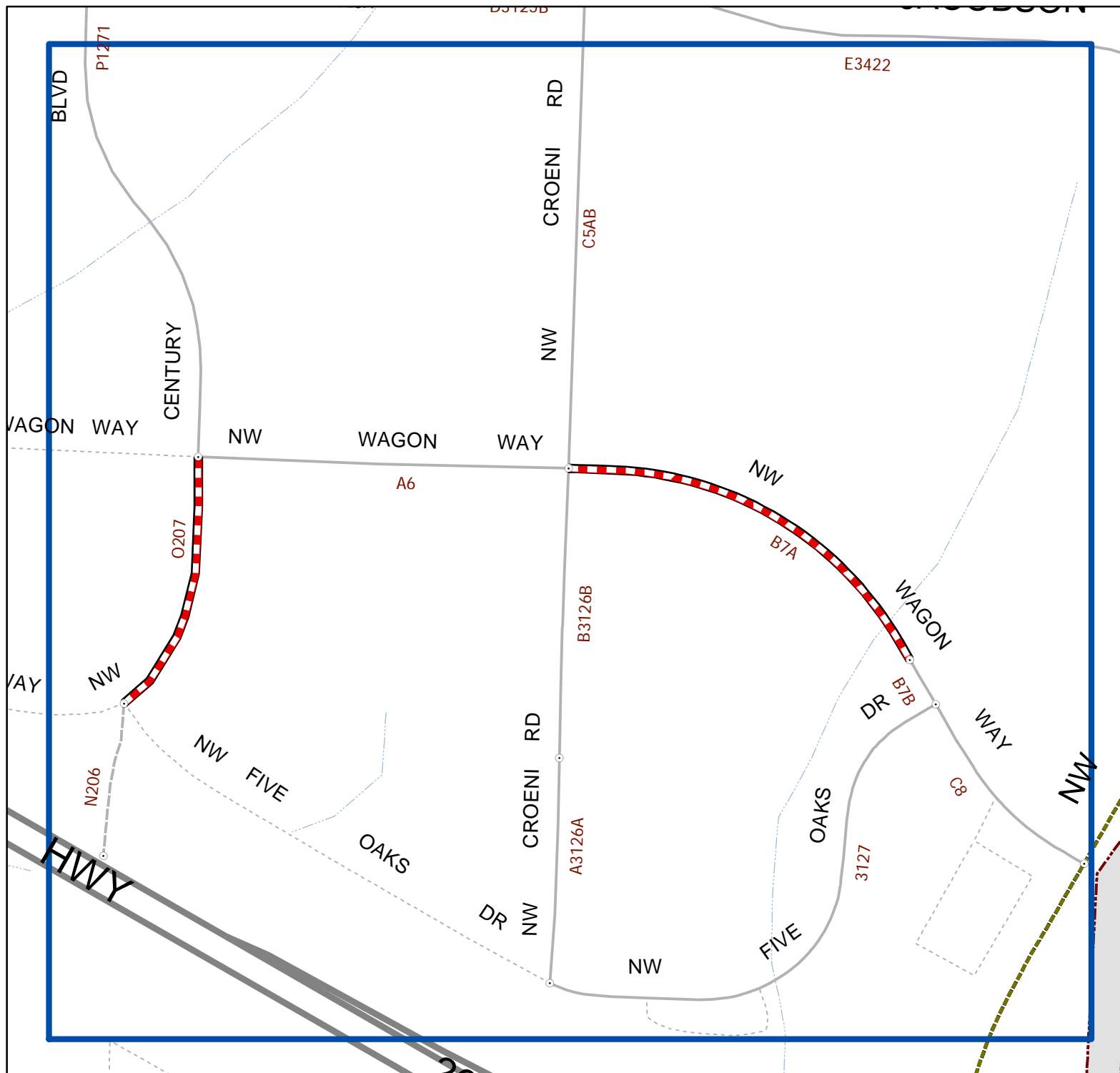
- City Roadway
- City Alley
- Unimproved City ROW
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- County Road
- State Highway
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- River



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**Template D4**  
**Schedule "C": Overlays and AC Replacements**  
 2013 Pavement Management Program  
 #20552222-6102

**AC REPLACEMENTS**

SECTION ID	STREET	FROM	TO	AC REMOVE (SQYD)	AC REPLACE (TON)	AC REMOVAL SIZE (FT)	COMMENTS
O207	NW CENTURY BLVD	BEG PVMT (S) FIVE OAKS	C/L WAGON WAY	126.56	35.15	(17*67)	IN DO: 12"W = 21FT, MH=1, CB=1; 5" DEEP
B7A	NW WAGON WAY	W/S BEHIND XWALK CROENI	WIDTH CHNG	991.56	275.43	(6*75)+(48*156)+(17*58)	IN DO: 4"Y = 162FT, 8"W = 65FT, 4"W = 8FT, BRPM=2, WRPM=5, YRPM=6, LTA=2, WV=2, ADJ MON BOX=1; 5" DEEP
TEMPLATE TOTALS				1,118.12	310.58		